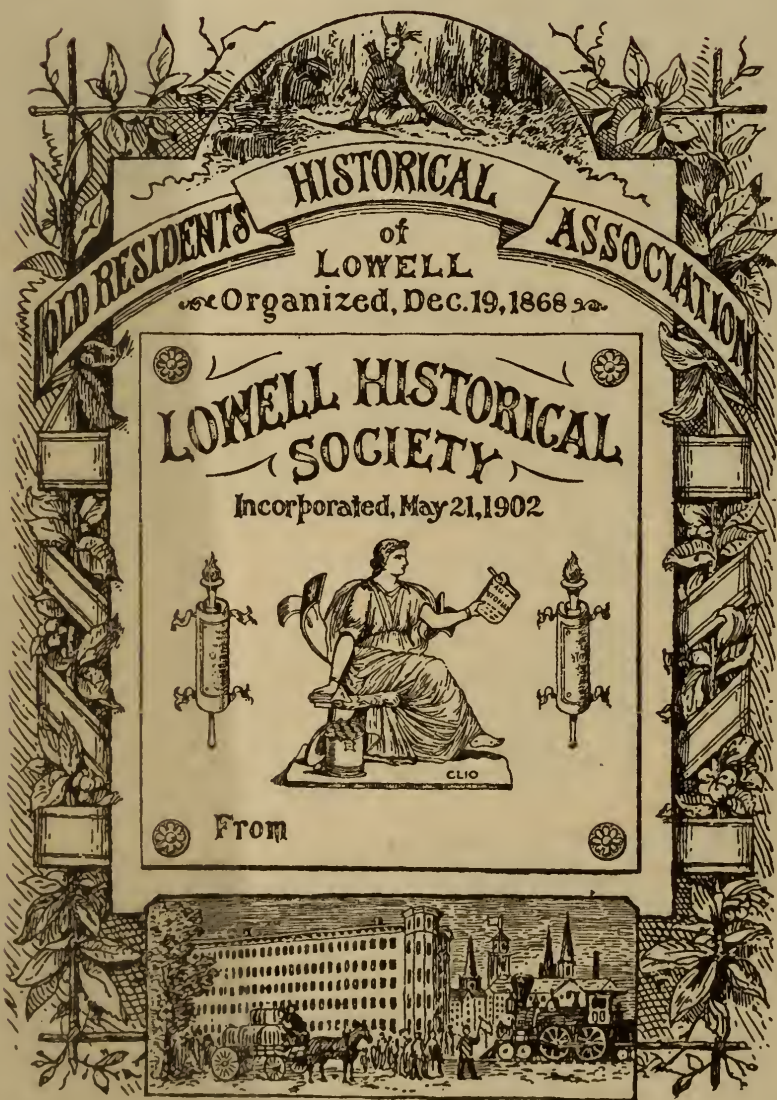




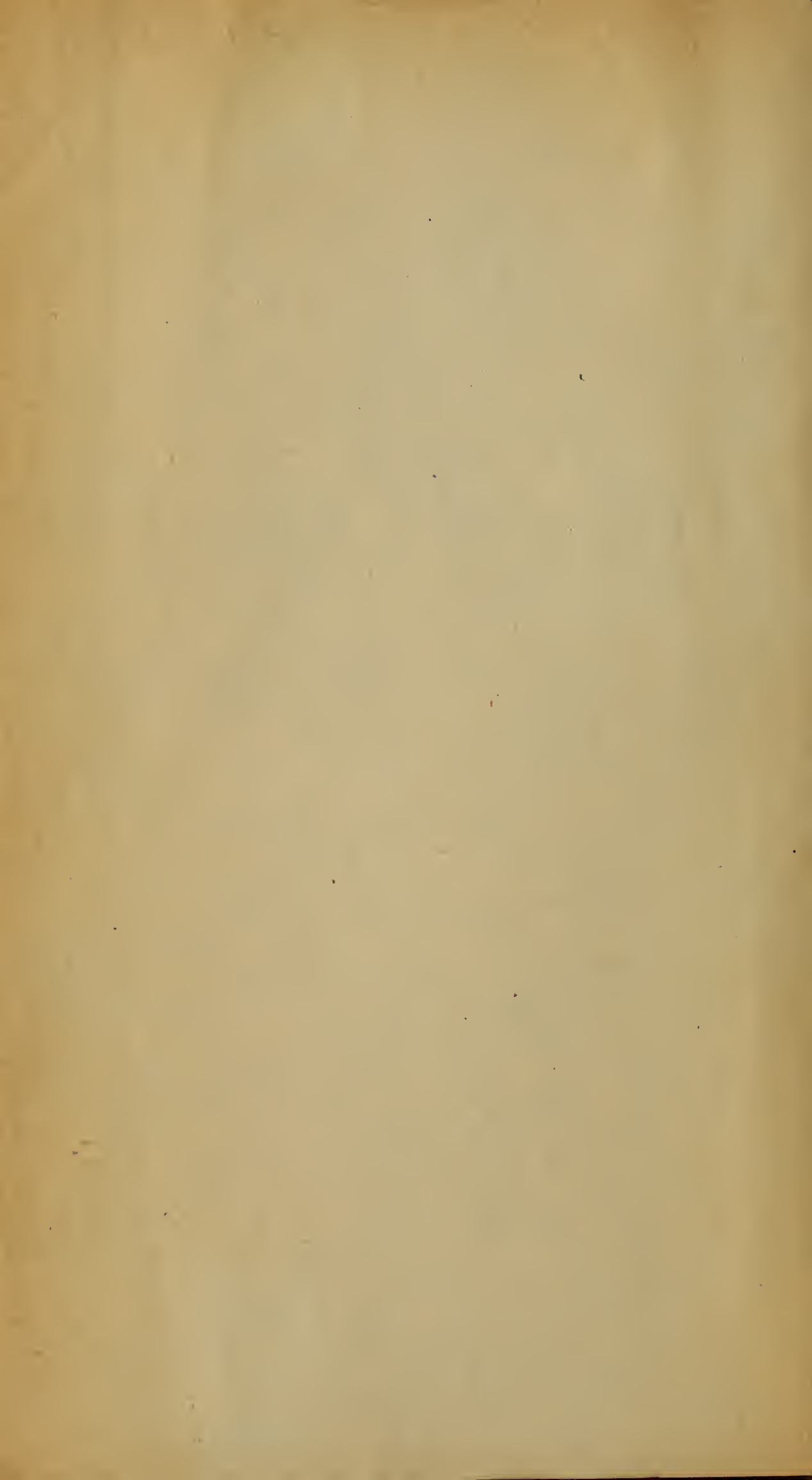
City of Lowell
to
Old Resident's Historical Ass

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LIBRARY OF THE



Case 9(63)



CITY DOCUMENTS
OF THE
CITY OF LOWELL, MASS.,
FOR THE
YEAR 1885-6.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

EXTRACT FROM THE ORDINANCES OF LOWELL.

CHAPTER VIII.—CITY DOCUMENTS.

SECTION 5. All City Documents (except the rules and regulations for the government of the police and fire departments) shall be printed in pamphlet form of the size of the Annual Report of the School Committee.

SECTION 6. All City Documents shall annually be bound together in one volume, under the direction of the City Clerk; and three or more copies shall be placed in the City Library, and one copy in the library of the Middlesex Mechanics' Association. One copy shall be sent to each city of the Commonwealth, to the library of Harvard College, the Public Library of Boston, the State Library and the Smithsonian Institution at Washington, and the old Residents' Historical Association of Lowell.

CONTENTS.

1. Inaugural Address of His Honor, JAMES C. ABBOTT, Mayor of the City of Lowell, to the two branches of the City Council, Jan. 4, 1886.
2. Municipal Register, containing Rules and Orders of the City Council, etc., with a list of the Government and Officers of the City of Lowell for 1886.
3. Sixtieth Annual Report of the School Committee of the City of Lowell, together with the Twenty-first Annual Report of the Superintendent of Public Schools, 1885.
4. The Auditor's Fiftieth Annual Report of the Receipts and expenditures of the City of Lowell, together with the Treasurer's Account for the Financial Year ending Dec. 31, 1885.
5. Annual Report of the Directors of the City Library, for the year 1885.
6. Annual Report of the Board of Health for the year 1885.
7. Annual Report of the City Physician and Superintendent of Burials in the City of Lowell for the year 1885.
8. Annual Report of Births, Marriages, and Deaths in the City of Lowell for the year of 1885.
9. Annual Report of the Chief Engineer of the Fire Department, for the year ending March 31, 1886.
10. Twelfth Annual Report of the Water Board of the City of Lowell to the City Council, accompanied by the Reports of the Engineer and Superintendent of Water Works to the Board, Jan. 1, 1886.
11. Annual Report of the City Marshal, for the year 1885.
12. Annual Report of the City Solicitor, for the year ending Feb. 28, 1886.
13. Sixtieth Annual Report of the Overseers of the Poor of the City of Lowell.

14. Annual Report of the Superintendent of Streets, for the year ending Dec. 31, 1885.
15. Annual Report of the Superintendent of Public Buildings for the year ending Dec, 31, 1885.
16. Annual Report of the Sealer of Weights and Measures for 1885.
17. Annual Report of the Superintendent of Street Lamps for the year 1885.
18. Annual Report of the Superintendent of City Scales and Measurer of of Wood and Bark, for the year 1885.
19. Salaries of the Officers of Lowell for the year 1886.

THE INAUGURAL ADDRESS

OF

HIS HONOR

JAMES C. ABBOTT,

MAYOR OF THE CITY OF LOWELL,

TO THE

TWO BRANCHES OF THE CITY GOVERNMENT,

JANUARY 4, 1886.



LOWELL:
HARRINGTON BROS., PRINTERS, SUN OFFICE.
1886.

CITY OF LOWELL.

IN COMMON COUNCIL, January 4, 1886.

Order requesting a copy of the Mayor's address for publication.

ORDERED, if the Board of Aldermen concui, That His Honor the Mayor be requested to furnish a copy of his Inaugural Address for publication.

IN COMMON COUNCIL, January 15, 1886.

Read and adopted; sent up for concurrence.

DAVID CHASE, *Clerk.*

IN BOARD OF ALDERMEN, January 15, 1886,

Read and adopted in concurrence.

SAMUEL M. CHASE, *City Clerk.*

ADDRESS.

GENTLEMEN OF THE CITY COUNCIL:—

We have come together today, not as partisans, but as citizens, and as servants of the citizens of Lowell.

In this community there is an undoubted demand for an economical, business-like administration of the affairs of the city.

It has been made plain that our fellow citizens distinguish between economy and parsimony, between judicious expenditure and indiscriminate retrenchment. We are expected to stop every leak from the treasury and reduce the rate of taxation, but the streets are to be made and kept safe and convenient; sewers are to be built; the salaries of the teachers of the public schools, and of the other officials of the city, if diminished, are not to be scaled down hurriedly, but after systematic, intelligent and conscientious investigation; while the humble day-laborer in the streets and sewers should receive a good day's pay for a good day's work. There is but one simple rule of true economy for

the individual citizen and the public corporation: Buy what is necessary, and whether it be materials, the finished product, labor or other service, see that the quality is good, and pay the full value therefor and no more. By the persistent observance of this rule in the future, the people of Lowell can obtain what is needed—an immediate and rapid reduction of the tax rate. A high rate of taxation drives away capital from the city and keeps it from coming in. No manufacturer and no employer of men will establish industrial enterprises in places where the tax rates are sixteen, seventeen or eighteen dollars per thousand.

Through every season of panic and financial depression, the city of Lowell has passed with a remarkable degree of safety. This has been due very largely to the solidity of our great manufacturing corporations, to the general conservative management of the affairs of the city, and to the sober, economical methods and habits of our men of business, and the people generally.

FINANCIAL.

The following summary of the financial condition of the City has been submitted to me by the Auditor:

Cash in Treasury Jan. 1, 1885.....	\$ 21,481.29
Amount received during the year 1885.....	1,831,505.51
Making a total of.....	1,852,986.80
Amount paid from the Treasury during the year 1885,	1,833,483.69
Cash in Treasury Dec. 31, 1885.....	19,503.11

CITY DEBT.

Amount of the ordinary city debt, Jan. 1, 1885.....	\$1,426,100.00
Amount borrowed during the year 1885,	100,000.00
Total.....	\$1,526,100.00
Amount paid during the year 1885....	147,850.00
Total ordinary city debt, Dec. 31, 1885.	\$1,378,250.00
Amount of the debt of the city on account of Water Works, Jan. 1, 1885.....	\$1,875,000.00
Amount borrowed during the year 1885.	15,000.00
Total debt of the city on account of Water Works Dec. 31, 1885.....	1,890,000.00
Total debt of the city Dec. 31, 1885..	\$3,268,250.00
Ordinary city debt Dec. 31, 1885.....	\$1,378,250.00
Amount of the several sinking funds for the payment of the same Dec. 31, 1885.....	304,968.34
Net ordinary city debt Dec. 31, 1885.	\$1,073,281.66
Debt of the city on account of Water Works Dec. 31, 1885.....	\$1,890,000.00
Amount of the several sinking funds for the payment of the same Dec. 31, 1885.....	511,557.96

Net debt of the city on account of Water Works Dec. 31, 1885.....	\$1,378,442.04
Total net debt of the city Dec. 31, 1885.....	<u>\$2,451,723.70</u>
Net city debt Dec. 31, 1884.....	\$2,660,054.09
Net city debt Dec. 31, 1885.....	<u>2,451,723.70</u>
Decrease in net city debt during the year 1885.....	<u>\$208,330.39</u>

According to this statement it appears that the several sinking funds have continued to accumulate as heretofore, and precisely as required by law.

Late in the year 1884, a considerable sum was received from the commonwealth, which an ordinance required should be applied to one of the sinking funds. At the beginning of the year 1885, an equivalent sum somewhat in excess of the cash in the Treasury on the first day of January, was paid into the proper sinking fund.

Apart from the unavoidable contributions to the sinking funds, it appears that, of the ordinary city debt \$147,850 has been paid, but it also appears that the same debt has been increased during the year by borrowing \$100,000. In addition \$15,000 was borrowed on account of the Water Works, making together \$115,000, borrowed during the year. So that outside of the sinking funds, the net reduction of the city debt has been

\$32,850. This is a much better showing than an addition of \$32,850. This result was made possible only by the circumstance that there has been little done in the way of public improvements. It would seem as if there could hardly be a year in the future, in which less could be done in repairs and improvements, than has been done in the year 1885.

When we consider this it will readily be seen that every expenditure should be closely scrutinized. \$32,850 is a narrow margin between paying our bills and increasing our debt.

Under the operation of the Statute law of Massachusetts the sinking funds continue to do their work. Subtracting them, there remains the net city debt of \$2,451,723.70, which is a decrease during the year of \$208,330.39.

There was received into the Treasury during the year from all sources \$1,831,505.51 which was \$1,978.18 less than was paid out in the same time, leaving the cash in the Treasury at the beginning of this year just \$1,978.18 less than at the beginning of the last year.

The city's credit is unimpaired; that it should continue so is of more importance than that any

political party, or any man, or any set of men should be elevated to the administration of local affairs.

SCHOOLS.

Our schools constitute our most weighty trust. Upon the importance of their liberal support, it is not necessary to say more than that to sustain their present high standard, is to advance our own interest and to promote the future welfare of the nation.

That the best accommodations, the best sources of information, and the best instructors may be supplied, a large appropriation will be required and will be cheerfully made. The excellent condition of the schools in general attests the earnest, faithful, and conscientious work performed by those in charge, and we feel satisfied that for the money paid for instruction more than ample dividends are returned.

The total enrollment for the past year was 9239. The average number belonging was 6954, and the average attendance 6320. The total expenditures, including the evening schools, was \$160,983.30.

EVENING SCHOOLS.

The evening schools have attained a wonderful growth within the past two years, in consequence

of their transfer to the rooms occupied by the day scholars. The number enrolled this year is over 2000, with an average attendance of 1200, almost double the attendance of last year. Seventy teachers (fifteen males and fifty-five females) are required, and the appointment of a special supervisor was deemed necessary during the year. This appointment has met with the approval of the public, and is most satisfactory in its results.

That the evening drawing schools are thoroughly appreciated is apparent from the increased attendance year after year. The accommodations furnished in the Green school building were found not sufficient, and the school building on Worthen street is occupied in part by a portion of this department. All the classes of the drawing school should be transferred to the Worthen street school and the entire building devoted to the purposes of an art school.

SCHOOL HOUSES.

During the coming year the city council will be called upon to provide school accommodations in different sections of the city. The need of a school building in Ward Three, beyond the Fair Grounds, is especially urgent. In Ward Four, as also in Ward Two, additional school-rooms are

necessary. Costly and ornamental structures and luxurious furnishings are uncalled for. Neat, substantial, well-lighted, well ventilated and convenient buildings should be erected, as they can be, at a reasonable cost.

The expenditures for new school-rooms during the past year amounted to \$14,802.52. Repairs, \$19,496.09; making the total expenditures of this department for the year \$34,298.61.

CITY LIBRARY,

Scarcely second in importance to the public schools in its relation to education, is the city library. The thirty thousand volumes upon its shelves furnish information upon almost every department of human knowledge. They are consulted annually by more than 120,000 readers, comprising every class in the community; by the scholar in our public schools, the professional man, our artisans and mechanics, who find there the most recent discoveries and approved methods in every branch of art or labor. The advantages thus freely offered are becoming better appreciated every year, and it should be your care to place upon its board of directors men of sound judgment and literary attainments, and to them should be left

the choice of a librarian and other assistants necessary for the efficient management of its affairs.

I therefore recommend that the ordinance relating to the city library be so amended that the election of librarian be made the duty of the directors, instead of being vested in the city council, and that he be removable only for cause, according to the judgment of the board.

The present librarian, Mr. Charles H. Burbank, was elected July 28 to fill the vacancy caused by the resignation of Mr. Frank P. Hill.

The whole number of subscribers, 9,204; those added during the year, 2,257. The total expenditure for the year was \$13,203.45. The receipts were \$2,167.46. The net expenditure, \$11,035.99.

LICENSE LAW.

By an increased majority, Lowell has voted for license.

No more important matter will come before the board of aldermen than the administration and enforcement of the liquor law. A considerable revenue has been derived from license fees. The net sum realized from this source by the city treasury during the past year has been \$53,791; paid commonwealth \$13,447.75; net receipts for city \$40,343.25.

Unless you should find the expense too great, I would most earnestly recommend the establishment under the law, of a board of three license commissioners. I believe such a board properly constituted would feel the responsibility resting upon it, and would better enforce the provisions of the law; thus permitting the members of the board of aldermen more time in which to consider and act upon the other important questions regarding municipal affairs coming before them.

The disregard of the license law, its open violation, has long been a scandal in the community. It seems urgent that the board of aldermen should make a strong effort to bring about improvement and reform in this direction by the appointment of a commission, as suggested.

POLICE.

An efficient police department is one of the most important elements in our system of municipal government, for to its care is committed the protection of our persons and property, and the good order and welfare of our city. The police officers are not annually appointed, but hold their position during the pleasure of the board of aldermen, thus making the tenure of their office practically permanent; therefore it does not seem

unreasonable to require that the officers should be honest, capable and faithful, and should exert themselves to preserve good order and impartially enforce the law. One can judge somewhat of the efficiency of the department by the absence of crime and lawlessness. The number of lodgers at the police station is largely on the increase, the total number for the year ending November 30 being 3393. The total number of arrests made during the year ending November 30 was 2771.

The department now consists of 71 officers, rank and file, sixty-two regulars and nine supernumeraries; no additions have been made to the force during the year 1885.

Total expenditure of this department, \$67,015.41; receipts, 11,514.47; net expenditure, \$55,500.94.

HEALTH DEPARTMENT.

The net expenditure of this department has been \$17,039.88 for the past year, a larger sum than has ever been expended for sanitary purposes in any previous year. This is owing largely to the work done by the board of health to place the city in the best possible condition in anticipation of the appearance of Asiatic cholera. Past experience has taught us that whenever it has prevailed

in Europe to any great extent as during the past year, it has never failed to visit this country. The city has now a reasonably good name for its healthfulness, and was never in a better sanitary condition.

For a detailed statement of this department, I refer you to the annual report of the board of health.

PUBLIC BUILDINGS.

The expenses of this department for the past year have been much less than the year previous. One of the stores in the government building has been fitted up and the office of the water board removed to the same. I would suggest that the office of the overseers of the poor be removed to a similar place, as its present situation is very inconvenient to aged persons requiring aid from the city.

The total expenditure of this department for the past year was \$7,465.47; receipts, \$3,214.37; net expenditure, \$4,251.10.

FIRE DEPARTMENT.

By personal inspection I find everything connected with this department in good condition. Few cities are better guarded against extensive conflagrations than Lowell. Canals intersect the

closely built part of the city. An excellent system of water works with 752 hydrants, supplies a stream of water with ample pressure at every street corner. More than all, our firemen are thoroughly efficient, and the entire apparatus for extinguishing fires and saving property from fire and water is thoroughly effective.

The entire cost of this department during the year has been \$69,629.76.

Of this total, however, one large item made up of the water rates for the hydrants, twenty dollars per hydrant, is placed to the credit of the water works, and amounts to \$15,040.00.

LIGHTING DEPARTMENT.

This department is under the supervision of the Chief of the fire department. Its expense has been increased within the past two years by the introduction of electric lights. This seems to have been unavoidable. At all events there has been a public demand for more perfect illumination of our streets at night.

I recommend a liberal policy in this department, but perhaps caution may be necessary to prevent extravagant multiplication of lights. The entire outlay for the year 1885 was \$45,319.15.

COMMONS.

The value of the places of public resort for the people cannot be too highly estimated. Every city and town of any considerable size possesses grounds which are resorted to for public recreation. Such grounds should be neatly kept, and the maintenance of good order preserved. The amount expended on commons the past year, has been \$3,338.09; receipts, \$310.80; net expenditure, \$3,027.29.

LOCAL CIVIL SERVICE.

The local civil service board, consisting of Messrs. Chas. E. Paige, John J. Colton and Chas. H. Conant, have held three examinations of applicants for the police and clerical service in this city since the recent civil service law went into effect. Twenty-six applicants appeared, of whom nineteen were for the police and seven for the clerical service. Of the nineteen police applicants only ten passed a successful examination, and of these ten three were veterans of the late war, while of the seven applicants for the clerical service five obtained the requisite rank of 65. The average age of applicants for police service thus far is 30, and for clerical service 26.

These examinations are intended to be of a practical character, and it is hoped and expected

that the police and other departments will be gradually strengthened and improved under the operation of the civil service law.

SEWERS AND DRAINS.

During the past year \$42,781.20 have been expended by this department. The receipts have been \$14,478.13, making the net expenditure \$28,303.07.

There have been 2,873 lineal feet of brick sewers and 2,683 lineal feet of pipe sewers laid in the following named streets:—

Broadway, Belmont and Pine, Davis, Chelmsford, Boylston and Concord, Gold, Market and Dutton, Mount Vernon, Rogers, River, Royal, Talbot, Twelfth and West Fourth.

Sixty-six street catch-basins have been constructed, most of which were built by contract.

Through the kindness of Col. James Francis, agent of the proprietors of the locks and canals, permission has been obtained from the directors of the company to construct two overflow sewers from the Middlesex street sewer and the Jackson street main, so-called, to connect with the Pawtucket canal. One of these is to be located at the foot of Grand street and the other at Thorndike street.

These overflows are intended to relieve the main sewer during heavy rains and thaws, and it is thought will entirely do away with all cause of complaint from damage and annoyance experienced on account of back water from the sewer.

Some of the abutters on Merrimack street between Prescott street and city hall have also suffered severely from time to time by the flooding of basements with water from the sewer. I am informed that this difficulty might be overcome by constructing a new outlet for the Merrimack street sewer and its branches from Prescott street through Merrimack street directly to Concord river; this matter should be referred to the committee on sewers for investigation.

ROADS AND BRIDGES.

Few new streets have been made, and few streets constructed by private owners have been accepted during the year. This is due to the fact that the population has remained stationary or has diminished, and there has been little need of street extension to accommodate territory newly opened for dwelling-houses. This has lessened expense materially. Only six streets and parts of streets have been accepted, all of which were graded before they were taken by the city. These were

Royal street and portions of Cabot, Loring, Worthen, Burke and Harrison streets.

The bridges, the most costly of them being new, have required no expenditure except for repairs of the roadways.

I recommend that the streets be kept as the law of this Commonwealth prescribes, in a "reasonably, safe and convenient condition" for travelers, both by day and night; to suffer them to be otherwise is not economy, it is extravagance.

I also recommend caution in laying out new streets, at the instance of a few interested persons. Before a new street is laid out the committee on streets ought always to be satisfied under the statute, that the "public convenience" and not private interest calls for it. On the other hand if a new way is really needed, the city of Lowell can afford to have it, and it should be built.

I desire only to impress upon the committee having this department in charge, that a very great responsibility rests on them. In no other department is there more danger of wastefulness; in no other department is there greater necessity for economical, liberal and judicious management.

The entire amount expended during the past year for streets has been \$88,000.56, the receipts

have been \$27,662.70, making the net cost \$60,337.86. Macadamizing has been done in Rock, Jackson, Taylor and Thorndike streets, 16,814 lineal feet of edgestone have been set, and 7,360 square yards of tar concrete sidewalks have been laid.

PAUPERS.

The cost of this department during the year 1885 was \$66,311.96. This included out-door relief, and all assistance rendered poor persons at the city farm and elsewhere. Of this sum \$11,235.88 was expended for salaries and wages.

Two thousand six hundred and eighty-eight dollars and seventy-five cents was paid for the support of paupers at St. John's hospital. The average cost of each pauper at the city farm for the year was \$69.52. The number of persons supported entirely as paupers has increased with the growth of population and with business depression.

Recent legislation tends to relieve the Commonwealth of the burden of supporting alien paupers, and to place it upon the cities and towns. The act of 1878 is an illustration of this tendency. By that act any woman twenty-one years of age, residing in any place within the state for five consecutive years without receiving relief as a pauper, gains a settlement in such place.

The almshouse of Lowell is undoubtedly humanely conducted; its inmates are all comfortable and well cared for. All dread of the poor-house, except what comes from a laudable pride, is passing away. This may account for a portion of the increase of expense in this department; but I believe the tax-payers desire that the helpless poor shall be humanely and benevolently treated.

The present number of inmates at the city farm is 330; the average number during the year was 317. In addition there was 2,475 persons in the city who received partial support or temporary relief. This great number was divided among 1,105 families. Of these, however, 606 persons distributed in 167 families, had no settlement in Lowell and the state or other cities or towns were liable for their support. Wood, coal and provisions have been furnished to the amount of \$17,981. This sum, expended for fuel and food, dispensed to the worthy poor should render much needed assistance. It is a kind of charity which has increased rapidly in the last ten years. In 1875 when our population was 50,000, the whole cost for out-door relief was \$4,778.60; in 1874 only \$2,414.60 was expended in this way. So with an increase in our population of about 30 per cent. the expense for out-door re-

lief of the poor has multiplied since 1875 about four times, and since 1874 nearly eight times. Not one should regret this expenditure, provided only that the deserving poor alone receive the charity.

STATE AID.

Money is disbursed to two classes in this department, they are persons who receive pensions from the national government and indigent soldiers and sailors of the late war who receive no pensions.

Sums paid to pensioners are refunded to the city by the Commonwealth. Sums paid to the other class are refunded in part. The entire cost including aid and expense of its disbursement, was \$18,557.25. The receipts were \$15,572.50.

WATER WORKS.

Our city is blessed with an unfailing supply of pure water for domestic and manufacturing purposes. The water of the Merrimack river is shown by analysis to be far above the average of water supplied to other cities. Our water works were constructed at a large outlay, and most of us remember the prejudice against the introduction of water. But it has proved a great benefit in assisting the growth of our city. The water department has always been managed in a business-like manner

for the benefit of all classes of citizens. During the last year the entire system of water works have been thoroughly cleaned, a work that had been contemplated for a number of years. The sliding in of the paving of the Beacon street reservoir caused by drawing off the water at the time of cleaning works, caused an outlay of some fourteen thousand dollars. But the paving has now been relaid in such a manner that the reservoir is now under perfect control, and can be drawn off at any time, should necessity require, without the risk of disturbing its paving.

The pumping machinery is in perfect order, as was demonstrated by its ability to supply the city for five weeks with all the water required without the aid of the storage reservoir. This department I am happy to state, has become (after only fourteen years' existence) self-sustaining, and will probably ask for no appropriation this year.

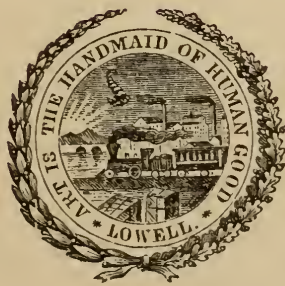
CONCLUSION.

Gentlemen, in assuming the duties of the coming year, let us remember that the government we are called upon to administer, comes home to the hearthstones of the people.

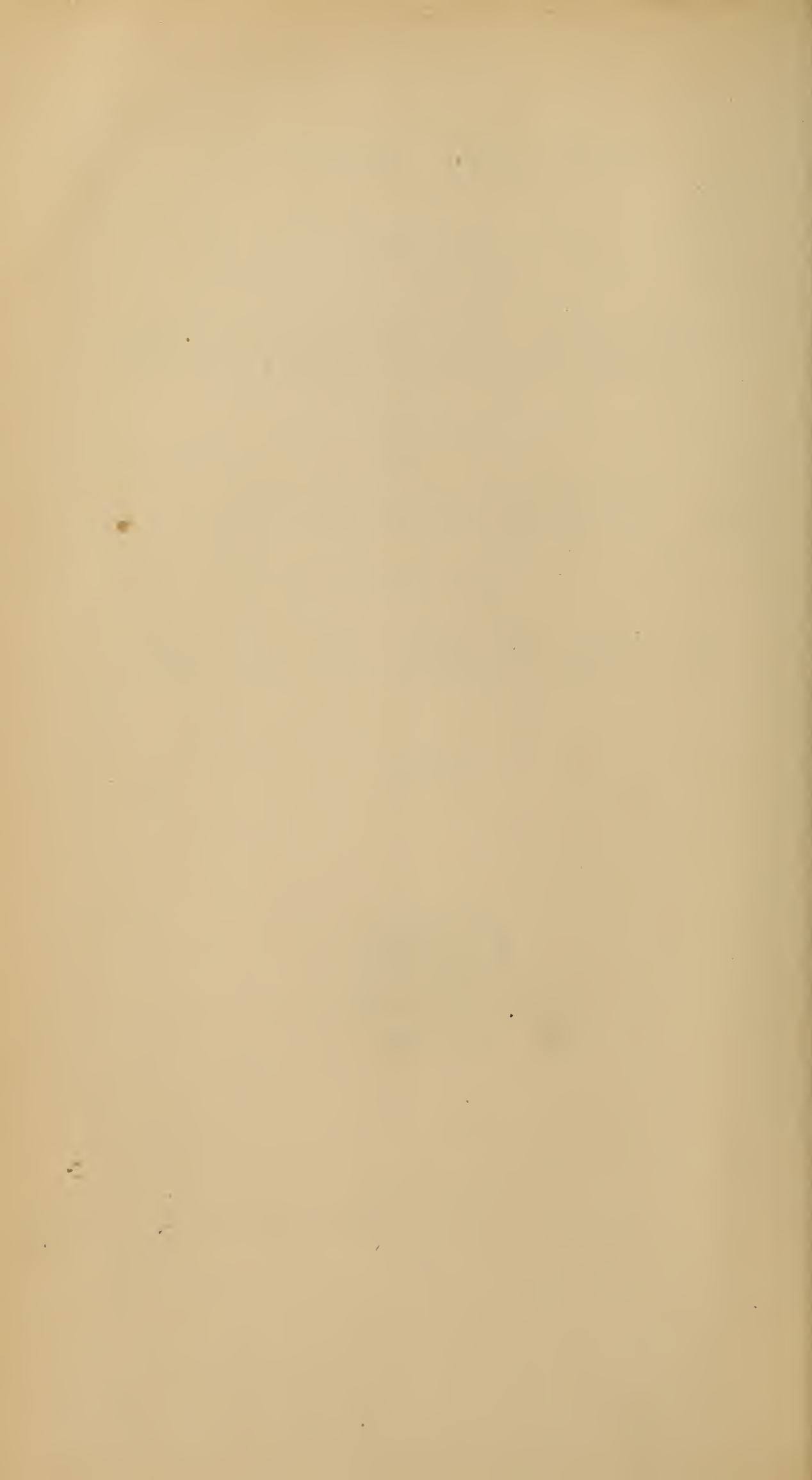
Let us avoid "idle disputations," let the sessions of both branches of the city government be always

characterized by dignity and decorum; let us bear in mind that we are spending the people's money for the people's benefit, and every dollar is from the pockets of the people. We may not escape criticism, even censure, still let us honestly strive for the public good, and the commendation of our fellow-citizens.

MUNICIPAL REGISTER:
CONTAINING
RULES AND ORDERS
OF THE
CITY COUNCIL,
AND A LIST OF
THE GOVERNMENT AND OFFICERS OF THE CITY OF LOWELL.
1886.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.



JOINT RULES AND ORDERS OF THE CITY COUNCIL.

1. In the month of January joint standing committees shall be appointed as follows :—

A COMMITTEE ON ACCOUNTS.

A COMMITTEE ON CLAIMS.

A COMMITTEE ON EDUCATION.

A COMMITTEE ON THE FIRE DEPARTMENT.

A COMMITTEE ON LANDS AND BUILDINGS.

A COMMITTEE ON MILITARY AFFAIRS.

A COMMITTEE ON ORDINANCES AND LEGISLATION.

A COMMITTEE ON PRINTING.

A COMMITTEE ON STREETS.

A COMMITTEE ON COMMONS.

Each committee shall consist of two Aldermen and three members of the Common Council, except the Committee on Streets, which shall consist of two Aldermen and five members of the Common Council.

2. Each board shall, in such manner as it may determine, select its own members for any joint committee.

3. In all joint standing committees, except that on Finance, the member first named in the Board of Aldermen shall be chairman; of the Committee on Finance, the member first named in the Common Council shall be chairman; and in all joint special committees, the member first named in the board where the business originates, shall be chairman, and shall call the committee together.

4. Reports of committees shall be made to the board first meeting after such reports are prepared and signed.

5. No committee shall act by separate consultation, and no report shall be received unless agreed to in committee actually assembled.

6. It shall be the duty of every joint committee (the Committee on Streets excepted) to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

7. The by-laws of the city shall be termed Ordinances; the enacting clause of which shall be—"Be it ordained by the City Council of the City of Lowell, as follows."

8. An ordinance may originate in either board, and shall be considered in three several stages. It shall first be read for information, and the question shall then be on ordering it to a second reading, but if it has not previously been in the hands of some joint committee it shall first be so referred. When reported back, the recommendations of the committee shall first be acted on. If it shall then be ordered to a second reading, it shall next be examined by a standing committee of that board, who shall see that it is drawn in proper form. When returned by such committee, the question shall be on ordering it to be enrolled. If so ordered, it shall then be sent to the other board, where the same order of proceeding shall be observed. When it has been ordered by both branches to be enrolled, it shall be enrolled by the Clerk of the Common Council, and shall be by him submitted to the proper committee of that board, to ascertain if it has been correctly enrolled. If so reported, the question shall be on passing it to be ordained. If it shall so pass, it shall be signed by the President of the Common Council and be sent to the Board of Aldermen, where it shall take a like course. If passed to be ordained in that board, it shall be signed by the Chairman of the Board of Aldermen, and be sent to the Mayor for his approval.

9. Every joint resolution shall be read in the board in which

it is introduced, and the question shall be upon ordering it to a second reading. If so ordered, the question shall then be upon its passage. If passed it shall be sent to the other board, where the order of proceeding shall be the same. When passed by both boards, the resolution shall be presented to the Mayor for his approval, and when the same shall be in force, shall be enrolled by the Clerk of the Common Council, and when found correctly enrolled as provided in the case of an ordinance, it shall be signed by the President of the Common Council and the Chairman of the board of Aldermen, and be presented to the Mayor for his signature, if he approved the original.

10. Joint orders shall require, but one reading, and when adopted shall be sent to the Mayor for his approval, except when they relate to a question of a convention of the two branches, or the election of any officer.

11. An ordinance may be rejected in any stage, but may not pass through all its stages in the same day.

12. Every appropriation of money exceeding fifty dollars, shall be by resolution.

13. Each board shall transmit to the other all papers on which any ordinance, joint resolution, or order, shall be founded; and all papers on their passage between the two boards shall be under the signature of their respective clerks, except ordinances and joint resolutions in their last stage, which shall be signed by the presiding officers. If papers come before either board, which have been duly acted upon in the other board, the presiding officer shall so state without reading the endorsements of the clerk, unless the latter are called for.

14. All enrolled ordinances shall be written in a fair and legible hand, without interlineations or erasures, and no enrolled ordinance or resolution shall be amended.

15. When either board does not concur with the other in any ordinance or resolution sent from the other, notice of such non-concurrence shall be given by a written message.

16. In any case of non-concurrence, each board may appoint a Committee of Conference. Such committee shall consist, in each case, of three members who support the vote of their own board. These two committees may meet jointly or separately, and a majority of each shall decide its action.

17. No committee shall enter into any contract with any of its members, or purchase, or authorize the purchase of, any article therefrom.

18. No chairman of any committee shall audit or approve any bill or account against the city, for any supplies or services which shall not have been ordered or authorized by the committee.

19. All reports and other papers submitted to the City Council shall be written in a fair hand, without endorsement except in case of the introduction of an order or resolution. In such case the member introducing an order or resolution shall subscribe his name at the bottom of the back of the same. All other endorsements upon the back of papers shall be made by the clerks; and the clerks of the boards respectively shall, on seasonable notice, make copies of any papers to be reported by committees, at the request of the respective chairmen thereof.

20. No business shall be transacted by the City Council in convention, except such as shall have been previously agreed on, unless by unanimous consent.

21. After the annual appropriations shall have been passed, no subsequent expenditure shall be authorized for any object, unless provision for the same shall be made by a specific transfer from some of the appropriations contained in the annual resolution, or by expressly creating therefor a city debt; but no such debt shall be created unless the resolution authorizing the same pass by the affirmative votes of two-thirds of the whole number of each branch of the City Council, said votes to be taken by yeas and nays, excepting in cases of appropriations for the providing of armories for the use of military companies, for the celebration of holidays, and for other

purposes of public nature, when a vote of two-thirds of the members of each branch of the City Council present and voting shall be sufficient, but the amount of such appropriations named in this clause shall not exceed one-fiftieth part of one per cent. of the valuation of the city for the same year.

22. In ballotings in joint convention, blanks shall not be counted.

23. When both boards are in session at the same time, neither shall adjourn without giving notice to the other of its intention.

24. Reports of city officers, after being presented, shall remain in the office of the City Clerk two weeks before being printed.

25. All papers, of whatever description, relating to business requiring concurrent action of both boards of the City Council must be presented to the City Clerk or the Clerk of the Common Council not later than noon on the day the meeting is to be held. Petitions, reports, or other papers, presented after that hour will not be taken up for action thereon until the next meeting.

26. These rules may be suspended for a specific purpose, or amended, whenever twenty-two members of a joint convention of the two branches shall so direct, or whenever a joint order to that effect shall be passed by the votes of six members of the Board of Aldermen and sixteen members of the Common Council.

RULES AND ORDERS OF THE BOARD OF ALDERMEN.

1. At the appointed time the presiding officer shall take the chair, and on the appearance of a quorum, proceed to business.

2. The order of business shall be as follows:—

First—At all regular meetings, the journal of the last regular meeting, and all intervening meetings of the board, shall be approved without reading, unless the reading be called for by some member of the board.

Second—Petitions and similar papers.

Third—Appointments, elections, etc.

Fourth—New business, which unless otherwise ordered will take its place at the foot of the Orders of the Day.

Fifth—Orders of the Day, consisting of unfinished business of the last previous meeting, papers from the Common Council, and such matters as have been introduced as new business. By a vote of six members, any matters in the Orders of the Day may at any time be taken up for immediate consideration.

3. The presiding officer shall decide all points of order, subject to appeal. He may read while sitting, but must rise to put a question. He shall allow debate on a question until the vote has been declared, but not on the verification of a vote; and on the demand of two members shall take every vote by yeas and nays.

4. When a question is under debate, the presiding officer shall receive no motion but to adjourn, to take up a special assignment, to lay on the table, to postpone to a day certain, to commit, to amend, or to postpone indefinitely. These several motions shall have precedence in the foregoing order, and debate upon any of them shall be confined to the actual motion, and shall not go into the merits of the main question, except on amendment.

5. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting, which latter motion shall have priority if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

6. No member shall be interrupted while speaking, but by a call to order, or for the correction of a mistake; nor shall there be any conversation among the members while a paper is being read or a question stated from the chair.

7. When any member is about to speak in debate, he shall rise in his place and respectfully address the presiding officer, shall confine himself to the question under debate, and avoid personality.

8. In the month of January, the following committees shall be appointed:—

A COMMITTEE ON BILLS IN SECOND READING.

A COMMITTEE ON ENROLLMENT.

A COMMITTEE ON LICENSES.

A COMMITTEE ON LIGHTING STREETS.

A COMMITTEE ON POLICE.

A COMMITTEE ON REPAIRS OF STREETS.

A COMMITTEE ON SEWERS.

A COMMITTEE ON WEIGHTS AND MEASURES.

A COMMITTEE ON STATE AID.

The Committees on Licenses, on Police, and on Sewers shall consist of three members each; the other committees shall be composed of two each.

9. Every member present shall be held obliged to vote on all questions, and not to leave without permission if his presence is necessary to make a quorum.

10. The clerk shall prepare for the use of the board a copy of the Orders of the Day, to which shall be added a list of matters laid on the table or postponed to a day certain.

11. When a reference is proposed to more than one committee, the question shall first be upon a standing committee of the Board, then a special committee, then a joint standing committee, and last a joint special committee.

12. These rules may be amended or suspended whenever two-thirds of the members present may so vote, but a motion to amend shall not be made and finally acted upon at the same meeting.

13. All petitions for the appointment or removal of police officers and watchmen, shall, before any action thereon is taken by the board, be referred to the Committee on Police.

14. All nominations of persons to serve as police officers and watchmen, shall, before action thereon by the Board, be referred to the Committee on Police, who shall report upon such nominations at or before the next regular meeting after such reference.

15. All papers of whatever description, which may require action by this board, shall be presented to the City Clerk not later than the hour of noon on the day of each regular meeting. Petitions, reports, and other papers presented after that hour on such day, will not be considered until the next meeting.

RULES AND ORDERS OF THE COMMON COUNCIL.

1. The President shall take the chair precisely at the hour appointed for the meeting, call the members to order, and within ten minutes (or sooner if a quorum be present) he shall cause the roll to be called and the names of the absentees recorded. The first business after the roll call, shall be the approval of the records of the previous meeting, which shall be approved without reading, unless their reading be called for by some member. In the absence of the President, the oldest member present shall call the Council to order, and preside until a President *pro tempore* be chosen.

2. He shall preserve order and decorum; may speak to points of order in preference to other members, rising from his seat for that purpose; and shall decide questions of order, subject to an appeal to the Council by any member.

3. He shall rise to address the Council, to state facts, but may put questions, or read, sitting.

4. He shall declare all votes: but if a vote be doubted, the President shall, without further debate, require the members voting in the affirmative and negative to rise and stand until they are counted, and he shall declare the result.

5. He may call any member to the chair, but such substitution shall not extend beyond an adjournment; and when out of the chair the President may express his opinion on any subject under debate, and he shall not resume the chair while the same question is pending.

6. All questions shall be propounded in the order in which they are moved, unless the subsequent motion be previous in its nature.

7. After a motion is stated by the President, it shall be disposed of by a vote of the Council, unless the mover withdraw it before a decision or amendment.

8. A motion to adjourn shall always be in order; that and the motion to lay on the table, shall be decided without debate.

9. The previous question shall be in this form: "Shall the main question be now put?" It shall only be admitted when demanded by a majority of members present; and, until it is decided, shall preclude all amendment and further debate of the main question.

10. The yeas and nays shall be taken on any questions upon the request of one-third of the members present.

11. When two or more members happen to rise at the same time, the President shall name the member who shall speak first.

12. When any member is about to speak in debate, or deliver any matter to the Council, he shall rise in his place, and respectfully address the presiding officer, confining himself to the question under debate, and avoid personality.

13. No member shall be mentioned in debate by his name, but may be described by the place he sits in, or such other designation as may be intelligible and respectful.

14. No member speaking shall be interrupted by another, but by a call to order or to correct a mistake. If any member, in speaking or otherwise, transgress the rules of the Council, the President shall, or any member may, call him to order; in which case the member so called to order shall immediately be seated until the question of order is decided. If the decision be in favor of the member called to order, he shall be at liberty to proceed; if otherwise, he shall not proceed without the leave of the Council.

15. No member shall speak more than twice to the same question, without obtaining leave of the Council.

16. Whilst the President or any member is speaking, none shall stand up or pass unnecessarily before the person speaking.

17. Every motion shall be reduced to writing, if the President or any member require it.

18. When a question is under debate, no motion shall be received but to adjourn, to lay on the table, for the previous question, to postpone to a certain day, to commit, to amend, or to postpone indefinitely; which several motions shall have precedence in the order in which they are arranged; and no motion to postpone or commit shall be allowed twice in the same day, in the same stage of the ordinance or proposition.

19. When a vote has passed, except for adjournment or to lay on the table, any member voting with the majority may move a reconsideration to be acted upon at the same meeting. Any member voting with the minority may move a reconsideration to be acted upon at the next meeting; which latter motion shall have priority, if made before the motion first mentioned shall have been decided. No motion shall be twice reconsidered.

20. Every member who shall be in the Council when a question is put shall give his vote, unless the Council, for special reasons, excuse him.

21. No motion or proposition on a subject different from that under consideration shall be admitted under color of an amendment.

22. All reports may be committed or re-committed, at the pleasure of the Council.

23. The division of a question may be called for when the sense will admit of it.

24. When the reading of a paper is called for and objected to, it shall be determined by a vote of the Council.

25. No standing order of the Council shall be suspended, unless three-fourths of the members present consent thereto; nor shall any rule or order be repealed or amended, without one day's notice being given of the motion therefor, nor unless a majority of the whole Council concur therein.

26. All committees, except such as the Council determine to select by ballot, shall be nominated by the President.

27. No member shall be obliged to serve on more than two committees at the same time, or be chairman of more than one.

28. All memorials and other papers addressed to the Council, shall be presented by the President, or by a member in his place, who shall explain the subject thereof, and they shall be taken up in the order in which they were presented, unless the Council shall otherwise direct.

29. Standing committees shall be appointed on the following subjects:—

ON SECOND READING OF BILLS AND ORDINANCES.

ON ENROLLMENT.

ON ELECTIONS AND RETURNS.

30. No committee shall sit during the sittings of the Council without special leave, except the Committee on the Second Reading of Bills and Ordinances, and the Committee on Enrollment.

31. The rules of proceeding in the Council shall be observed in the Committee of the Whole, so far as they are applicable, except the rule limiting the time of speaking.

32. When a committee is nominated by the chair, the person first named shall be chairman. In election of committees by ballot, when a chairman is not specially chosen, the person having the highest number of votes shall act as chairman, and in case of an equality in votes between two or more members of a committee, the members thereof shall choose a chairman.

33. All ordinances and resolutions shall have two several readings before they shall be finally passed by this Council.

34. All ordinances before being read a second time shall be referred to the Committee on the Second Reading of Bills and Ordinances, and after being reported upon by said committee, shall be again read, after which second reading, the question shall be on passing the same to be enrolled.

35. No ordinance or resolution imposing penalties, or authorizing the expenditure of money, shall have more than one reading the same day.

36. The seats of the Common Council shall be numbered, and determined by lot, and no member shall change his seat but by permission of the President.

37. All committees of the Council shall consist of three members, unless a different number be specially ordered. And no report shall be received from any committee, unless agreed to in committee actually assembled; and all reports shall be in writing.

38. It shall be the duty of every committee of the Council, to whom any subject may be specially referred, to report thereon within five weeks, or ask for further time.

39. The clerk shall keep brief minutes of the votes and proceedings of the Council, entering thereon all accepted resolutions; shall notice reports and memorials, and other papers submitted to the board, only by their titles, or a brief description of their purport.

40. All salary officers shall be chosen by written or printed ballots, and in the election of any officers by ballot, blanks shall not be counted.

41. Members of the Council may attend meetings of any of its committees, but shall not vote thereat.

42. The clerk of the Common Council shall keep the record of committees who may require that service; and on the appointment of every standing committee, a book for records

shall be provided by its chairman, or by said clerk. The clerk shall have the custody of all minutes by him kept; and the records of the several committees shall be open to the inspection of the members of the City Council.

43. Any member offering a resolution, shall write his name on the bottom of the back of such resolution.

GOVERNMENT OF THE CITY OF LOWELL, 1886.

MAYOR.

JAMES C. ABBOTT,

18 Fairmount Street.

BOARD OF ALDERMEN.

JEREMIAH CROWLEY, *Chairman*....Mount Washington, near
Bowers Street.

JOHN F. PHILLIPS,.....Merrimac House.

STEPHEN. B. PUFFER.....424 Middlesex Street.

GEORGE E. STANLEY.....105 Beacon Street.

DANIEL WRIGHT.....44 Highland Street.

SAMUEL D. BUTTERWORTH.....113 Moore Street.

GEORGE F. PENNIMAN.....Head of Liberty Street.

JAMES FRANCIS.....Wyman Street.

COMMON COUNCIL.

WALTER M. SAWYER, *President*.

Ward One.

PETER B. SHERLOCK.....38 Merrimack Corporation.

PATRICK H. PLUNKETT.....228 Market Street.

THOMAS J. ENRIGHT.....18 Suffolk Street.

TIMOTHY H. BRENNAN.....257 Market Street.

Ward Two.

WALTER M. SAWYER.....39 Third Street.
 CHARLES H. RICHARDSON.....2 Shedd Street.
 JAMES R. FULTON.....48 Boott Corporation.
 FRANCIS D. MUNN, Jr.,.....162 Bridge Street.

Ward Three.

DANIEL CLEARY.....194 Lawrence Street.
 PATRICK J. MAHAN.....10 Manchester Street.
 EDWARD D. McVEY.....62 Gorham Street.
 THOMAS J. SPARKS.....141 Lawrence Street.

Ward Four.

ARNOLD S. WELCH.....44 Appleton Street.
 GEORGE A. ROPER.....36 Walker Street.
 FRANK W. HOWE.....127 Summer Street.
 WILLIAM A. LANG.....545 Chelmsford Street.

Ward Five.

HENRY L. NEWHALL, Mammoth Road, near Seventh Avenue.
 ELWYN W. LOVEJOY.....441 Broadway.
 WILSON W. CAREY.....67 Mount Vernon Street.
 ROSWELL M. BOUTWELL.....196 Mount Vernon Street.

Ward Six.

LAWRENCE J. SMITH.....96 Stackpole Street.
 JOHN E. DRURY.....107 Charles Street.
 CHARLES H. HOBSON.....Harrison, near Oak Street.
 MARCELLUS H. FLETCHER.....6 Tyler Street.

 CLERK OF COMMON COUNCIL.

DAVID CHASE.....15 Fourth Street.

Chosen on the first Monday in January. City Charter, Sect. 13.

MEETINGS OF THE CITY COUNCIL.

The regular meetings of the City Council are held at the City Hall, as follows:—

Board of Aldermen.

January.....18.	June.....1 and 15.
February.....2 and 16.	July.....6 and 20.
March.....2 and 16.	September.....7 and 21.
April.....6 and 20.	October.....5 and 19.
May.....4 and 18.	November.....2 and 16.
December.....7 and 21.	

At 7.30 p. m.

Common Council.

January.....12 and 26.	June.....8 and 22.
February.....9 and 23.	July.....13 and 27.
March.....9 and 23.	September.....14 and 28.
April.....13 and 27.	October.....12 and 26.
May.....11 and 25.	November.....9 and 23.
December.....14 and 28.	

At 7.30 p. m.

JOINT STANDING COMMITTEES OF THE CITY COUNCIL.

FINANCE — The Mayor, Alderman Wright, and Councilmen Smith, Boutwell and Newhall.

ACCOUNTS — Aldermen Francis and Penniman; Councilmen Newhall, Hobson and Smith.

CLAIMS — Aldermen Crowley and Phillips; Councilmen Enright, Newhall and Welch.

EDUCATION — Aldermen Phillips and Francis; Councilmen Lang, Fletcher and Brennan.

FIRE DEPARTMENT — Aldermen Puffer and Crowley; Councilmen Boutwell, Richardson and Plunkett.

LANDS AND BUILDINGS — Aldermen Butterworth and Stanley; Councilmen Roper, Drury and Munn.

MILITARY AFFAIRS — Aldermen Wright and Francis; Councilmen Fulton, Richardson and Plunkett.

ORDINANCES AND LEGISLATION — Aldermen Penniman and Stanley; Councilmen Howe, McVey and Fulton.

PRINTING — Aldermen Phillips and Butterworth; Councilmen Welch, Fletcher and Hobson.

STREETS — Aldermen Stanley and Puffer; Councilmen Enright, Munn, Carey, Lovejoy and Sparks.

COMMONS — Aldermen Wright and Crowley; Councilmen Howe, Brennan and Mahan.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

BILLS IN SECOND READING — Aldermen Francis and Wright.

LICENSE — Aldermen Penniman, Puffer and Butterworth.

ENROLLMENT — Aldermen Butterworth and Phillips.

LIGHTING STREETS — Aldermen Francis and Puffer.

SEWERS — Aldermen Phillips, Butterworth and Puffer.

WEIGHTS AND MEASURES — Aldermen Puffer and Penniman.

POLICE — Aldermen Crowley, Stanley and Butterworth.

REPAIRS OF STREETS — Aldermen Stanley and Puffer.

STATE AID — Aldermen Wright, Penniman and Puffer.

STANDING COMMITTEES OF THE COMMON COUNCIL.

ELECTIONS AND RETURNS — Messrs. Roper, Sherlock and Mahan.

BILLS IN SECOND READING — Messrs. Howe, McVey and Cleary.

ENROLLMENT — Messrs. Fulton Cleary and Sherlock.

CITY OFFICERS, 1886.

CITY CLERK.

SAMUEL M. CHASE.....Office, City Hall.

Chosen by the City Council in convention in January. City Charter, Section 17.

CITY TREASURER AND COLLECTOR OF TAXES.

VAN. B. SLEEPER.....Office, City Hall.

Chosen by the City Council in Convention in January. City Charter, Sect. 17. Deputy Collectors are selected and appointed by the Treasurer and Collector.

AUDITOR OF ACCOUNTS.

DAVID CHASE.....Office, City Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 2, Sect. 1.

SUPERINTENDENT OF STREETS.

CHARLES H. HANSON..Office, at Civil Engineer's Room, City Hall.

Chosen by concurrent vote in January or February, Ord., Chap. 35, Sect. 1.

SURVEYORS OF HIGHWAYS.

Alderman GEORGE E. STANLEY; Councilmen THOMAS J. ENRIGHT
and WILSON W. CAREY.

Chosen by concurrent vote in January or February. City Charter, Sect. 17; Ord., Chap. 35, Sect. 1.

CIVIL ENGINEER FOR THE CITY.

GEORGE E. EVANS.....Office, City Hall.

Chosen by Concurrent vote in January or February. Ord., Chap. 13, Sect. 1.

CITY MESSENGER.

GIRARD P. DADMAN.....Office, City Hall.

Chosen by concurrent vote in January. Ord., Chap. 10, Section 1.

CITY SOLICITOR.

GEORGE F. LAWTON.....Elected in January, resigned March 30th.

JOHN J. PICKMAN, Elected April 6th, office, 5 and 6 Barrister's Hall.

Chosen by concurrent vote in January or February. Ord., Chap. 11, Sect. 1.

LIBRARIAN OF THE CITY LIBRARY.

CHARLES H. BURBANK.....Office, at the Library, Masonic Temple.

Chosen by concurrent vote in January or February. Ord., Chap. 14, Sect 4.

DIRECTORS OF THE CITY LIBRARY.

JAMES C. ABBOTT, Mayor..... } *Ex*
 WALTER M. SAWYER, President of Common Council... } *Officiis.*

Ward 2—EDWARD ELLINGWOOD. Ward 5—ARTHUR F. SALMON.

For Three Years.

Ward 3—HARRY DUNLAP. Ward 6—WILLIAM G. WARD.

For Two Years.

Ward 1—LAWRENCE CUMMINGS. Ward 4—WM. J. COUGHLIN.

For One Year.

Meetings first Monday evening in each month.

The last six are chosen by concurrent vote in January or February (two each year). Ord., Chap. 14, Sect. 2.

SUPERINTENDENT OF PUBLIC BUILDINGS.

GEORGE A. CHASE.....Office, Middle Street.

Chosen by concurrent vote in January or February. Ord., Chap. 5, Sect. 1.

CITY PHYSICIAN.

JOHN J. COLTON.....Office, Bank Building, Shattuck Street.

Appointed by the Mayor and Aldermen, January, 1885, for three years. Pub. Statutes, Chap. 80, Sect. 15.

SUPERINTENDENT OF BURIALS.

† JOHN J. COLTON.....Office, Bank Building, Shattuck Street.

Chosen by concurrent vote in January or February. Ord., Chap. 4, Sect. 1.

ASSESSORS OF TAXES.

Office, City Hall, Third Floor.

For Two Years.

JAMES MARREN.

WILLIAM W. READ.

MICHAEL H. McCUE.

For One Year.

FRED N. EDGELL.

HARRISON W. STREETER.

ALFRED BARNEY.

MICHAEL H. McCUE, *Chairman*. FRED N. EDGELL, *Secretary*.

P. F. SULLIVAN, *Clerk*.

Assignment of Wards.

Ward 1 — MICHAEL H. McCUE. Ward 4 — H. W. STREETER.

“ 2 — WILLIAM W. READ. “ 5 — ALFRED BARNEY.

“ 3 — FRED. N. EDGELL. “ 6 — JAMES MARREN.

Chosen alternately by concurrent vote in January or February. Ord., Chap. 3, Sect. 1.

† Successor not Chosen.

OVERSEERS OF THE POOR.

Office, City Hall.

JAMES C. ABBOTT, Mayor..... *Ex Officio.*

Term Expires 1887.

Term Expires 1888.

WILLIAM H. PARKER.

ELWYN W. LOVEJOY.

GEORGE S. CUSHING.

JAMES G. ELLIOTT.

ALBION J. DUDLEY.

FREEMAN W. PUFFER.

Chosen for two years in January, one-half retiring annually. City Charter, Sect, 29.

JAMES C. ABBOTT, *Chairman.* LEONARD F. JEWELL, *Secretary.*

Sub-Committees.

ON ACCOUNTS — Messrs. Lovejoy, Elliott and Dudley.

ON FUEL AND OUT-DOOR RELIEF — The Mayor, Messrs. Parker and Puffer.

ON AGRICULTURE, NEAT CATTLE AND SWINE — Messrs. Parker, Puffer and Cushing.

ON CARE AND REPAIRS OF BUILDINGS — Messrs. Elliott, Dudley and Lovejoy.

ON CLOTHING, BEDDING AND FURNITURE — Messrs. Dudley, Puffer and Cushing.

ON PROVISIONS AND SUPPLIES — The Mayor, Messrs. Cushing and Parker.

ON DISPENSARY — Messrs. Cushing, Lovejoy and Elliot.

ON WOOD YARD — Messrs. Puffer, Dudley and Parker.

Regular Meeting of the Board at the City Almshouse, on the last week-day of each month, at 2.30 o'clock, P. M.

Institutions and Officers at the City Farm.

The institutions consist of the Almshouse, a Workhouse used for the imprisonment of certain convicts, and "The House for the Employment and Reformation of Juvenile Offenders in the

City of Lowell." The farm embraces about one hundred and twenty-five acres, seventy-five of which are in a high state of cultivation.

ALBERT PINDER, *Superintendent.*

WILLIAM A. LANG, *Chaplain, and Teacher Reform School.*

Appointed by the Overseers of the Poor, annually, at the last meeting in December.

There are also one Male Assistant and one Female Assistant, appointed by the Overseers of the Poor, annually, at the last meeting in December.

MEMBERS OF THE LOWELL WATER BOARD.

Office, City Hall.

WALTER COBURN, *President.*

From the City Council — Alderman JAMES FRANCIS; Councilmen
ARNOLD S. WELCH, FRANK W. HOWE.

From the Citizens at Large — WALTER COBURN, term expires
1887; CHARLES A. R. DIMON, term expires 1888.

Clerk, ANDREW J. DEVOLL.

The members of the Lowell Water Board are chosen by concurrent vote in January, and in March or April. Ord., Chap. 39, Sect. 1. The Superintendent is chosen in March or April, by concurrent vote. Ord., Chap. 39, Sect. 1. The Clerk is chosen by the Board. Ord., Chap. 39, Sect. 2.

COMMISSIONERS OF SINKING FUNDS.

JAMES C. ABBOTT.....Term expires 1887.

CHARLES C. HUTCHINSON.....Term expires 1888.

CHARLES M. WILLIAMS.....Term expires 1889.

VAN B. SLEEPER, *Secretary and Treasurer.*

The Commissioners are elected under the provisions of Chapter 29 of Public Statutes, Sect. 10.

POLICE DEPARTMENT.

City Charter, Sect. 19. Ord., Chap. 28, Sect. 4; Chap. 279, Acts of 1867.

The members of this Department, except the Chief of Police, are appointed by The Mayor and aldermen, as Police Officers and

Watchmen, with all the powers of Constables, except the power of serving and executing civil process, and hold their offices during the pleasure of the Board of Aldermen.

Police Roll, 1886.

JACOB G. FAVOR, Chief of Police...20 Mt. Washington Street.

FRANK WOOD, Deputy Chief of Police....2 Meadowcroft Street.

Offices in Station House, Market Street.

CHARLES HOWARD, Captain of Police.....34 Livingston Street.

DANIEL M. HAYES, Inspector of Police.....21 Marion Street.

CHARLES LAFLAMME, Inspector of Police.....120 School Street.

FRANK GOODWIN, Inspector of Police.....115 Appleton Street.

ALEX. W. HARPER, Inspector of Police....427 Middlesex Street.

PETER T. CORCORAN, Court Officer.....66 Warren Court.

WILLIAM G. BUMPS, Court Officer.....3 Lombard Street.

Day Patrol.

BEALS, CYRUS M.....24 Third Street.

ELLIOTT, ALBERT F.....62 Beach Street.

FARRINGTON, HENRY.....5 Coral Street.

GARDNER, WILLIS L.....7 Shedd Street.

GRINNELL, ENOCH N.....47 Butterfield Street.

KEW, WILLIAM R.....22 Tremont Corporation.

LIBBY, ALBERT E.....32 Third Street.

LANE, DANIEL W.....10 Nichols Street.

MCQUADE, JAMES A.....53 Appleton Street.

SANBORN, THOMAS J.....86 Grove Street.

TILTON, JOHN W.....10 Whipple Street.

WALSH, JOHN A.....12 Dodge Street.

WEBSTER, JAMES E., Sergeant.....205 Westford Street.

Night Patrol.

ALLEN, THOMAS E.....71 West Union Street.

BROWN, LEVI.....75 Appleton Street.

BLOOD, JOSIAH S.....55 Branch Street.

BOYLE, JAMES.....	126 River Street.
COLLINS, CORNELIUS E.....	360 Central Street.
CHENEY, B. EUGENE.....	76 Mt. Vernon Street.
CAWLEY, PETER.....	172 Central Street.
CREAHIN, JOHN.....	335 West Pine Street.
DAVIS, GEORGE R., Sergeant.....	54 Pleasant Street.
DUNLAVY, JAMES.....	261 Broadway.
DUNLAVY, GEORGE F.....	34 West Third Street.
DURROUGH, JOHN.....	134 Lawrence Street.
FITZPATRICK, PATRICK.....	20 West Pine Street.
FLAHERTY, JOHN J.....	34 Marion Street.
FURLONG, JOHN C.....	141 School Street.
FOX, EDWARD.....	7 Faulkner Street.
GREGG, CHARLES, Sergeant.....	27 Alder Street.
GOODHUE, DAVID H.....	163 School Street.
GRADY, WILLIAM H.....	199 Thorndike Street.
GALLIVAN, DENNIS F.....	76 Rock Street.
HICKSON, JOHN.....	10 Decatur Street.
HOLMAN, ALFRED M.....	30 East Pine Street.
HOLLAND, JAMES E.....	172 Merrimack Street.
HOWARD, CORNELIUS.....	67 Whipple Street.
INGALLS, THOMAS.....	25 West Fourth Street.
JONES, WILLIAM B.....	101 Branch Street.
LIBBY, ISAAC L.....	11 Coral Street.
McLAUGHLIN, JAMES.....	170 Stackpole Street.
McNABB, JAMES.....	Mammoth Road.
MOFFATT, WILLIAM B.....	33 London Street.
MARSHALL, GEO. W.....	36 Pond Street.
O'DONNELL, PETER F.....	173 Merrimack Street.
O'CONNELL, JOHN.....	96 Chapel Street.
PAGE, ALONZO J.	286 Westford Street.
PIKE, HENRY C.....	25 Lane Street.
RING, THOMAS F.....	3 Cross Street Avenue.
RILEY, JAMES.....	87 Chapel Street.
STREETER, HERBERT P.....	33 John Street.

TILTON, HERMAN N.....	12 Whipple Street.
VARNUM, JOSEPH B... ..	34 Lawrence Street.
BREAULT, ELOI N.....	50 West Sixth Street.
DUNFEY, JOHN H.....	53 Merrimack Corporation.
DOHERTY, JOHN J	202 Market Street.
DENNETT, JOHN S.....	4 Massachusetts Corporation.
MCCARRON, WILLIAM.....	32 High Street.
MCDONALD, JOHN H.....	324 Central Street.
McKAY, JOHN H.....	27 Cady Street.
McINTEE, CORMACK.....	1 Adams Street.
PROVENCHER, NAPOLEON.....	224 Central Street.

Constables.

JACOB G. FAVOR.	DANIEL M. HAYES.
FRANK WOOD.	JOHN P. SEARLE.
CHARLES HOWARD.	BENJAMIN PATCH.
DANIEL G. GREENLEAF.	WILLIAM W. READ.
JOSEPH H. GUILLET.	FRED N. EDGELL.
HENRY KILESKI.	HARRISON W. STREETER.
DAVID FITZGERALD.	JAMES MARREN.
CHARLES J. SEARLE.	ALFRED BARNEY.
HENRY R. FLANDERS.	CHARLES GREGG.
EUGENE M. HASKELL.	MICHAEL H. McCUE.
CHARLES LAFLAMME.	JOHN B. SWIFT.
PETER T. CORCORAN.	JAMES E. WEBSTER.
WILLIAM G. BUMPS.	JOSEPH S. LAPIERRE.
FRANK GOODWIN.	JAMES B. TRUEWORTHY.
GEORGE R. DAVIS.	GIRARD P. DADMAN.
OVIDE E. BARIL.	ALONZO M. BARTLETT.
JOSEPH WELCH.	ISIDORE TURCOTTE.

POLICE COURT.

SAMUEL P. HADLEY.....*Standing Justice.*
 JOHN J. PICKMAN, }
 JOHN F. FRYE, }*Special Justices.*
 JAMES F. SAVAGE.....*Clerk.*

HEALTH COMMISSIONER.

JACOB G. FAVOR.....Office, Police Station.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

BOARD OF HEALTH.

J. W. B. SHAW, 1885-86. DR. NATHAN ALLEN, 1886-87.
 JOHN J. COLTON, City Physician.....*Ex Officio.*

Appointed by the Mayor and Aldermen in January. Chap. 80, Pub. Stat., Sect. 8; Ord. Chap. 22, Sect. 1.

BOARD OF REGESTRARS OF VOTERS.

* CHARLES W. SAVAGE.....until May 1, 1886.
 JOHN J. HARVEY.....until May 1, 1887.
 J. FRANK PAGE.....until May 1, 1888.
 SAMUEL M. CHASE, City Clerk.....*Ex Officio.*

Chairman, CHARLES W. SAVAGE.

Chap. 298, Sect. 14, Acts of 1884.

FENCE VIEWERS.

ALBERT PINDER.

JOSHUA M. HADLEY.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

* Successor not appointed and confirmed.

SURVEYORS OF LUMBER.

HENRY L. LOVEJOY.	GEORGE A. ROPER.
JAMES M. MORSE.	JAMES T. TRASK.
JOSHUA M. HADLEY.	CHARLES O. DAVIS.
ALFRED P. BATEMAN.	HARRY B. PETTENGILL.
ATIS OSGOOD.	CHARLES E. HOWE.
JOHN F. BATEMAN.	GEORGE W. CLIFFORD.
HENRY S. CONVERS.	EDWARD STOCKMAN.
FREDERICK CONANT.	CHARLES H. WHITMORE.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

FIELD DRIVERS.

FRANK GOODWIN.	DAVID H. GOODUE.
FRANK WOOD.	HENRY C. PIKE.
ALEX. W. HARPER.	

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

POUND KEEPER.

JAMES MANUEL.

Chosen by concurrent vote, commencing in the Board of Aldermen, in January or February. Ord., Chap. 37, Sect. 1.

Measurer of Wood and Bark — Superintendent of City
Scales—Inspector of Bale or Bundle Hay.

RICHARD J. NOONAN....Office at City Scales, rear of Market-
House Building.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 21, Sect. 1.

MEASURERS OF WOOD AND BARK.

EUGENE A. STANLEY.....63 Moody Street.
 THOMAS J. SAYERS.....
 CLARENCE G. COBURN.....At Pawtucket Square.
 EDWIN E. AREY.....At Tannery, Ayer's City.
 JAMES F. MCKISSOCK.....At No. 25 First Street.
 JOSEPH HOVEY.....In Centralville.
 SYDNEY DAVIS.....
 WILLIAM H. TAYLOR.....
 Appointed by the Board of Aldermen in January or February. Ord., Chap. 40, Sect. 1.

WEIGHERS OF COAL.

ARTHUR W. CARPENTER.	DANIEL W. HORNE.
AUGUSTUS W. WEEKS.	LORENZO WOOD.
DANIEL LIVINGSTON.	JOHN H. HOWARD.
PETER MOLLAHAN.	SYDNEY DAVIS.
LLEWELLYN E. SMITH.	LEONARD T. FARRIS, Jr.
CHARLES H. CROWELL.	WILLIAM H. TAYLOR.
FRED G. NEWTON.	JOHN B. BLESSINGTON.
WILLIS J. HILL.	EUGENE A. STANLEY.
ERWIN A. WILSON.	WALTER T. MOORE.

EDWARD CAWLEY.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sect. 2.

SEALER OF WEIGHTS AND MEASURES.

JAMES T. MURRAY.....Office, 57 Market Street.

Appointed by the Board of Aldermen in January or February. Ord., Chap., 37, Sect. 2.

INSPECTOR OF MILK AND VINEGAR.

A. A. HANSCOM.....Office, 67 Central Street.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sect. 2.

Surveyors of Plastering, Brick or Stone Work, and Painting.

HENRY S. CONVERSE.

ORA M. SNELL.

GEORGE E. EVANS.

MELVIN B. SMITH.

JOSHUA M. HADLEY.

ORIN F. OSGOOD.

ATIS OSGOOD.

JOHN F. BATEMAN.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sect. 2.

MEASURERS OF GRAIN.

JAMES BERRY.

GEORGE W. TILTON.

Fees, 2½ mills per bushel for measuring. Appointed by the Board of Aldermen in January or February. Ord., Chap. 37, Sect. 2.

WEIGHERS OF HAY AND OTHER ARTICLES.

EDMUND BRICKETT..At Scales, cor. Western Ave. and Fletcher St.

CLARENCE G. COBURN.....At Scales, in Pawtucket Square.

ORVILLE W. PEABODY.....At Hall & Peabody's, Dutton St.

CHARLES H. CROWELL.....At E. G. Parker's yard, Gorham St.

OLIVER D. WILDER.....At Elevator Building, Western Ave.

WILLIS J. HILL.....

LEROY C. HALL.....Dutton St., near Mechanics' Mills.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 21, Sect. 1.

Measurers of Wood and Bark Brought by Water or Rail- road Cars Into the City,

JAMES T. TRASK.

HARRY B. PETTENGILL.

JOHN F. BATEMAN.

Appointed by the Board of Aldermen in January or February. Ord., Chap. 40, Sect. 1.

INSPECTORS OF PETROLEUM OILS.

EDWARD S. HOSMER.

GEORGE B. ROOT.

Appointed by the Mayor and Board of Aldermen. Chap. 59 of Pub. Stat., Sect. 6.

MEASURERS OF UPPER LEATHER.

WILLIAM A. BROWN. WILLIAM H. WHITE. EDWIN E. AREY.

Appointed by the Board of Aldermen in April. Ord., Chap. 37, Sect. 2.

FISH-WARDEN.

OREN C. CARLTON.....Office, 22 Third Street.

Appointed by the Mayor and Aldermen. Chap. 91 of Public Stat., Sect. 42.

INSPECTORS OF BOILERS.

RICHARD DOBBINS.....Office, Tanner Street.

BARTHOLOMEW SCANNELL.....Office, 36 Tanner Street.

Pub. Stat., Chap. 102, Sect. 49.

INSPECTORS OF PROVISIONS.

JACOB G. FAVOR.....Office, Police Station.

DANIEL W. LANE.....“ “ “

ALEXANDER W. HARPER.....“ “ “

CHARLES HOWARD.....“ “ “

JAMES E. WEBSTER.....“ “ “

Appointed by the Mayor and Aldermen. Chap. 58, Pub. Stat., Sect. 1.

JANITOR OF HUNTINGTON AND JACKSON HALLS.

JOHN F. COSGROVE.

Appointed by the Mayor.

FIRE DEPARTMENT, 1886-87.

The Chief and Assistant Engineers are appointed annually by the Mayor and Aldermen in the months of March or April for the term of one year from the first day of May next succeeding. All other members of the Fire Department are nominated by the Board of Engineers, and appointed by the Mayor and Aldermen; and vacancies may be filled.

City Charter, Sect. 31 ; Ord., Chap, 20, Sect. 1 ; Chap. 35, Pub. Stat.

CHIEF ENGINEER.

* EDWARD S. HOSMER....Ingham's Block, East Merrimack Street.
Office, Engine House, Middle Street.

ASSISTANT ENGINEERS.

JAMES F. NORTON.....282 Central Street.
* OSCAR J. GILBERT.....19 Elm Street.
CHARLES W. MARRIOTT.....393 Middlesex Street.
GEORGE F. SALMON120 Cross Street.

JAMES F. NORTON, Clerk of the Board.

The Clerk is chosen by the Engineers.

* Successors not appointed and confirmed.

OPERATOR OF FIRE-ALARM TELEGRAPH.

G. B. WHITNEY.....Residence, 80 Middle Street.

COMMITTEE ON FIRE DEPARTMENT.

Aldermen PUFFER and CROWLEY; Councilmen BOUTWELL,
RICHARDSON and PLUNKETT.

SCHOOL COMMITTEE, 1886.

JAMES C. ABBOTT.....*Chairman.*
DANIEL J. DONAHUE.....*Vice-Chairman.*
GEORGE F. LAWTON.....*Secretary.*

JAMES C. ABBOTT, Mayor.....	}	<i>Ex</i>
WALTER M. SAWYER, President Common Council....	}	<i>Officiis.</i>
39 Third Street.		
Ward 1 — STEPHEN J. JOHNSON.....	Term Expires	1886.
231 Merrimack Street.		
LAWRENCE CUMMINGS.....	“ “	1887.
61 Adams Street.		
Ward 2 — HERBERT P. JEFFERSON.....	“ “	1886.
26 Kirk Street.		
WALTER H. LEIGHTON.....	“ “	1887.
263 Bridge Street.		
Ward 3 — DANIEL J. DONAHUE.....	“ “	1886.
65 Union Street.		
JOHN. J. CLUIN.....	“ “	1887.
52½ Central Street.		
Ward 4 — RANSOM A. GREENE.....	“ “	1886.
25 Walker Street.		
GEORGE W. BICKNELL.....	“ “	1887.
261 Westford Street.		
Ward 5 — ANDREW G. SWAPP.....	“ “	1886.
187 Pawtucket Street.		
GEORGE W. BATCHELDER.....	“ “	1887.
7 Arlington Street.		

Ward 6 — CHARLES H. CONANT.....Term Expires 1886.

54 Chestnut Street.

WALTER M. LANCASTER..... “ “ 1887.

142 East Merrimack Street.

STANDING COMMITTEES.

ON ACCOUNTS — The Mayor, Messrs. Sawyer, Batchelder, Conant, Cummings.

ON SCHOOL HOUSES AND HYGIENE — Messrs. Batchelder, Greene, Jefferson, Swapp, Leighton.

ON TEACHERS — Messrs. Johnson, Donahue, Cluin, Jefferson, Bicknell.

ON REPORTS AND PRINTING — Messrs. Bicknell, Swapp, Cummings, Lancaster, Donahue.

ON BOOKS AND SUPPLIES — Messrs. Cluin, Johnson, Greene, Donahue, Cummings, Swapp.

ON SALARIES — The Mayor, Messrs. Conant, Leighton, Bicknell, Lancaster.

ON PENMANSHIP AND DRAWING — Messrs. Greene, Johnson, Swapp, Batchelder, Conant.

ON MUSIC — Messrs. Donahue, Jefferson, Johnson, Lancaster, Conant.

ON EVENING SCHOOLS — Messrs. Cummings, Greene, Cluin, Swapp, Leighton.

ON RULES AND REGULATIONS — Messrs. Conant, Batchelder, Bicknell, Jefferson, Lancaster.

ON MILITARY INSTRUCTION — Messrs. Leighton, Cluin, Bicknell, Batchelder, Lancaster.

ON REFORM SCHOOL — The Mayor, Messrs. Sawyer, Johnson.

ON HIGH SCHOOL — The Mayor, Messrs. Sawyer, Johnson, Jefferson, Cluin, Greene, Swapp, Lancaster.

ASSIGNMENT OF SCHOOLS.

THE MAYOR — High and Reform Schools.

PRESIDENT W. M. SAWYER — High and Reform Schools.

MR. JOHNSON — High, Reform, Mann, Kirk Street, Central Street,
with annexes on Chapel Street.

MR. CUMMINGS — Green, Cabot Street, Rock Street, Cheever
Street.

MR. JEFFERSON — High, Varnum.

MR. LEIGHTON — West Sixth Street, Tenth Street, Morrill, River
Street.

MR. CLUIN — High, Butler, Agawam Street, Carter Street.

MR. DONAHUE — Colburn, Elliott Street, London Street.

MR. GREENE — High, Edson, Dover Street, Plain Street.

MR. BICKNELL — Highland, Franklin, Powell Street.

MR. SWAPP — High, Bartlett, School Street.

MR. BATCHELDER — Pawtucket, Mammoth Road, Varnum Avenue,
Middlesex Village, Howard Street, with Annex on Grand
Street.

MR. CONANT — Moody, High Street, Pond Street.

MR. LANCASTER — High, Church Street, Lyon Street, Ames Street,
Charles Street.

REGULAR MEETINGS OF THE SCHOOL COMMITTEE.

1886.

January.....	25	July.....	26
February.....	22	August.....	30
March.....	29	September.....	27
April.....	26	October.....	25
May.....	31	November.....	29
June.....	28	December.....	27

SUPERINTENDENT OF PUBLIC SCHOOLS.

GEORGE F. LAWTON.....Office in the City Hall.

OFFICE HOURS.—One hour after the forenoon session; and on Wednesday and Saturday afternoon, from 2 to 3 o'clock.

SUPERVISOR OF EVENING SCHOOLS.

JOHN A. SMITH.

TRUANT COMMISSIONERS.

BICKFORD LANG. WM. H. BERMINGHAM. JOHN F. WILLIAMS.

Office in the City Hall.

PRECINCT OFFICERS, FROM NOV. 1, 1885, TO NOV. 1, 1886.

Appointed by the Mayor and Aldermen in September.

WARD ONE.

Precinct One.

Warden....Robert Dawson.
DeputyJames F. Gillon.
Clerk.....Silas D. Gordon.
DeputyFrank W. Tinker.
Inspectors..George R. Choate.
 Thomas J. Duffy.
Deputies....Francis J. O'Rourke.
 Cyrus G. Hatch.

Precinct Two.

Warden....Matthew H. Gilroy.
Deputy....Thomas J. Groom.
Clerk.....Charles M. Brooks.
Deputy....Charles Ready.
Inspectors...George M. Clark.
 John J. Danahy.
DeputiesLawrence Cummings.
 Abram R. Proper.

Precinct Three.

WardenLawr'ce McDonough.
Deputy.....J. W. Feeney.
Clerk.....P. W. Clark.
Deputy.....Chas. A. McLaughlin.
Inspectors...Peter F. Kelley.
 Peter L. Denault.
Deputies....H. Harvey.

WARD TWO.

Precinct One.

Warden.....Owen Horan.
Deputy.....John H. Burke.
Clerk.....Newell Abare.
DeputyEdgar C. Whitney.
Inspectors...Geo. L. Adams.
 Thos. D. Hartford.
Deputies....John W. Arlin.
 H. F. Fletcher.

Precinct Two.

Warden..... ————
Deputy.....Geo. E. Duffy.
Clerk.....Wilder Coville.
Deputy....Harry E. Shaw.
Inspectors ..A. M. Bartlett.
 Edward M. Tucke.
Deputies....Thos. Kenney, jr.
 Edwin L. Perry.

Precinct Three.

WardenJohn J. McCluskey.
Deputy.....Henry S. Courtney.
Clerk.....Herbert A. Rugg.
Deputy.....F. H. Coggeshall.
Inspectors...Wm. P. Barry.
 J. F. McKissock.
Deputies....Wm. Hessian.
 H. P. G. Clough.

WARD THREE.

Precinct One.

Warden John F. Rogers.
Deputy John H. Freeman.
Clerk E. W. Proctor.
Deputy Irving S. Porter.
Inspectors . . John E. Maguire.

O. S. Nute.

Deputies . . . James P. Donohoe.
 Harry Gray.

Precinct Two.

Warden John Angluin.
Deputy John J. Mead.
Clerk — — —
Deputy Chas. R. Gale.
Inspectors . . Chas. D. Rolfe.

Philip J. Breen.

Deputies . . . Albert E. Moore.
 James Grady.

Precinct Three.

Warden Michael Kelley.
Deputy Philip Ginty.
Clerk A. G. Swan.
Deputy Henry Runnels.
Inspectors . . Silas R. Coburn.

James E. Hill.

Deputies . . . G. C. Bassett.
 Jeremiah Ryan.

WARD FOUR.

Precinct One.

Warden John S. Shea.
Deputy William McAloon.
Clerk Tyler R. Scott.
Deputy Willis E. Morse.
Inspectors . . John E. Enright.

Mortimer Sherman.

Deputies . . . Peter F. Conaton.
 George D. Jaques.

Precinct Two.

Warden C. Arthur Abbott.
Deputy Joel Knapp.
Clerk Fred Horne.
Deputy Frank B. Dow.
Inspectors . . Edwards Cheney.

Alex. Gadbois.

Deputies . . . W. W. Graham.
 John Daily.

Precinct Three.

Warden Michael M. Doyle.
Deputy J. A. Richardson.
Clerk F. E. Jewett.
Deputy J. F. Mannhan.
Inspectors . . C. E. Kimball.

Wm. N. Osgood.

Deputies . . . Patrick H. Ryan.
 Joseph B. Yorke.

WARD FIVE.

Precinct One.

Warden Edward B. Peirce.
Deputy John T. Masterson.
Clerk Charles L. Knapp.
Deputy Chas. C. Hartwell.
Inspectors . . Edward Ellingwood.
 Charles O. Hall.
Deputies . . . Joseph P. Battles.
 M. J. Dowd.

Precinct Two.

Warden James Kelley.
Deputy Cooledge R. Johnson.
Clerk Allen Buckminster.
Deputy George L. Fowler.
Inspectors . . Dennis J. O'Leary.
 — — —
Deputies . . . James Kelley.
 Louis P. Turcotte.

Precinct Three.

Warden T. G. Gerrish, Jr.
Deputy Patrick Moran.
Clerk Clarence G. Coburn.
Deputy George L. Lawson.
Inspectors . . Morton N. Peabody.
 John H. Lynch.
Deputies . . . Anthony F. Cogger.
 Charles E. Howe.

WARD SIX,

Precinct One.

Warden Hugh F. Fletcher.
Deputy Albert H. Gibson.
Clerk Alfred Gilman, Jr.
Deputy W. E. Stratton.
Inspectors . . Edward F. Crowley.
 Erwin A. Wilson.
Deputies . . . Abbott Lawrence.
 John F. Hayes.

Precinct Two.

Warden Edward Burns.
Deputy Hugh F. Duggan.
Clerk Ralph F. Brazer.
Deputy William Ellison.
Inspectors . . C. E. McDonald.
 Asa W. Mead.
Deputies . . . L. W. Walton.
 Thomas Carolin.

Precinct Three.

Warden John E. Sullivan.
Deputy Michael Noonan.
Clerk Wm. F. Wilder.
Deputy Wm. B. Goodwin.
Inspectors . . Frank Brown.
 Michael F. Clark.
Deputies . . . A. B. Balch.
 Charles H. Hobson.

POPULATION OF THE CITY OF LOWELL.

Year.	Population.	Year.	Population.	Year.	Population.	Year.	Population
1828	3,532	1837	18,010	1855	37,554	1875	49,688
1830	6,477	1840	20,981	1860	36,827	1880	59,485
1832	10,254	1844	25,163	1865	30,990	1885	*64,051
1833	12,963	1846	29,127	1866	36,878	....	.....
1836	17,633	1850	33,383	1870	40,928	....	.....

* Amended Returns, 64,107.

POPULATION, LEGAL VOTERS, ETC., BY WARDS.

Wards.	Popula- tion, 1885.	Legal Voters. 1885.	Registered Voters, Dec. 1885.			Vote for Mayor, 1885.	
			Males.	Females.	Total.	Noyes.	Abbott.
1.....	10,654	1,905	1,470	0	1,470	424	879
2.....	9,811	2,064	1,705	23	1,728	793	712
3.....	12,056	2,268	1,854	9	1,863	558	1,102
4.....	10,406	2,276	1,809	9	1,818	1,140	426
5.....	12,392	2,004	1,573	23	1,596	757	664
6.....	8,732	1,870	1,581	43	1,624	646	786
Total..	64,051	12,387	9,992	107	10,099	4,318	4,569

CATALOGUE
OF THE
GOVERNMENT OF THE CITY OF LOWELL,
IN
CHRONOLOGICAL ORDER OF SERVICE,

From its Institution, 1836, to 1885, Inclusive.

1836.**Mayor:**

ELISHA BARTLETT.

Aldermen:

William Austin, resigned Oct. 10,
Joseph Tapley, elected November,
Seth Ames,
Aaron Mansur,

Benjamin Walker,
Oliver M. Whipple,
Alexander Wright.

SAMUEL A. COBURN, CITY CLERK.

Common Council:

John Clark, *President*,
Henry J. Baxter,
Jonathan Bowers,
George Brownell,
James Cook,
David Dana,
Erastus Douglass,
Josiah B. French,
Cyril French,
Samuel Garland,
Horatio W. Hastings,
Horace Howard,

Stephen Mansur,
John Mixer,
Thomas Nesmith,
David Nourse,
Thomas Ordway,
James Russell,
John A. Savels,
Sidney Spalding,
Weld Spalding,
Jonathan Tyler,
Tappan Wentworth,
William Wyman.

GEO. WOODWARD, CLERK, died. ALBERT LOCKE, elected.

1837.**Mayor:**

ELISHA BARTLETT, † '36.

Aldermen:

Seth Ames, * '36,
John Aiken,
Seth Chellis,

Joseph G. Kittredge,
Joshua Swan,
Alexander Wright, * '36.

SAMUEL A. COBURN, CITY CLERK.

Common Council:**WARD 1.**

Joshua Abbott,
James K. Fellows,
Jesse Phelps,
Walter Wright.

WARD 2.

William Fiske,
Thomas Nesmith, '36,
Josiah Osgood,
Joseph Tyler.

WARD 3.

Joseph M. Dodge,
Elisha Huntington, *President*,
William North,
Joseph Tapley.

WARD 4.

William Baker,
Elijah M. Read,
Charles H. Wilder,
William W. Wyman.

WARD 5.

George Brownell, '36,
Osgood Dane,
James Russell, '36,
Tappan Wentworth, '36,

WARD 6.

Andrew Bird,
Benjamin H. Gage,
Jona. T. P. Hunt,
Abram Tilton.

ALBERT LOCKE, CLERK.

The figures without other marks indicate membership of the Common Council those years.
† Mayor that year. * Alderman that year. ‡ President of Common Council that year.

1838.**Mayor:**

LUTHER LAWRENCE.

Aldermen:Benjamin F. French,
Charles L. Tilden,
Oliver M. Whipple, * '36,George H. Carleton,
George Brownell, '36, '37,
Seth Chellis, * '37.

THOMAS ORDWAY, CITY CLERK.

Common Council:

WARD 1.

Jesse Phelps, '37,
Walter Wright, '37,
Eliphalet Brown,
Perez Fuller.

WARD 2.

William Fiske, '37,
Aaron H. Sherman,
William Upham,
Henry J. Baxter, '36.

WARD 3.

Thomas Hopkinson,
Elisha Huntington, ‡ '37, *President*,
Horace Howard, '36,
John Mixer, '36.

WARD 4

David Dana, '36,
Perley Hale,
Benjamin Walker, * '36,
William Baker, '37.

WARD 5.

Garret J. Bradt,
Benjamin Wilde,
Erastus Douglass, '36,
Rufus Paul.

WARD 6.

Eli Cooper,
Thomas L. Randlett,
James L. Foot,
Calvin Goodspeed.

ALBERT LOCKE, CLERK.

1839.**Mayor:**

LUTHER LAWRENCE,—[DIED IN APRIL.]

ELISHA HUNTINGTON, ‡'37, ‡'38.

Aldermen:Benjamin F. French, * '38,
John O. Green,
Charles L. Tilden, * '38,George H. Carleton, * '38,
John Clark, ‡ '36,
Oliver M. Whipple, * '36, * '38.

THOMAS ORDWAY, CITY CLERK.

Common Council:

WARD 1.

Walter Wright, '37, '38,
Harlin Pillsbury,
Eliphalet Brown, '38,
Forrest Eaton.

WARD 2.

Jonathan Tyler, '36,
John Nesmith,
Henry J. Baxter, '36, '38,
Jefferson Bancroft.

WARD 3.

Thomas Hopkinson, '38, *President*.
Jacob Robbins,
John G. Locke.

WARD 4.

Benjamin Walker, * '36, '38.
Samuel Horn,
Stephen Carleton,
Stephen Mansur, '36.

WARD 5.

Tappan Wentworth, '36, '37,
Lewis McIntire, died Feb., '40,
Benjamin Wilde, '38,
Garret J. Bradt, '38.

WARD 6.

Thomas L. Randlett, '38,
Joseph S. Holt,
John L. Fitts,
Daniel Knapp.

ALBERT LOCKE, CLERK.

1840.**Mayor.**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39.

Aldermen:Jonathan Tyler, '36, '39.
John R. Adams,
Joseph Bedlow,Harlin Pillsbury, '39,
Seth Ames, * '36, * '37,
Stephen Mansur, '36, '39.

THOMAS ORDWAY, CITY CLERK,

Common Council.**WARD ONE.**Forrest Eaton, '39,
Sylvanus Adams,
Henry Patch,
R. M. Hutchinson.**WARD 2.**Jefferson Bancroft, '39,
John Nesmith, '39,
Joseph G. Kittredge, * '37,
Josiah Osgood, '37.**WARD 3.**Pelham W. Warren, *President*,
Abner W. Buttrick,
Asa Hall,
Samuel Burbank.

ALBERT LOCKE, CLERK, died October.

WARD 4.Ferdinand Rodliff,
Ethan Burnap,
Edward F. Watson,
B. Walker, * '36 '38 '39, died Sept.**WARD 5.**Tappan Wentworth, '36, '37, '39,
Samuel W. Brown,
John J. Crane,
George Dane.**WARD 6.**Daniel Knapp, '39,
George L. Fitts, '39,
Joseph Battles,
Joshua Converse.

JOHN G. LOCKE, elected October.

1841.**Mayor:**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40.

Aldermen:Seth Chellis, * '37, '38,
Jefferson Bancroft, '39, '40,
Cyril French, '36,George H. Carleton, * '38, * '39,
John R. Adams, * '40,
John Aiken, * '37.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Henry Patch, '40,
George Bragdon,
John W. Holland,
Arnold Welch,**WARD 2.**William Fiske, '37, '38,
Erasmus D. Leavitt,
Jonathan White,
Nathaniel Wilson.**WARD 3.**Samuel Burbank, '40,
Nathaniel Critchett,
Royal Southwick,
Edward Winslow.**WARD 4.**Ethan Burnap, '40,
William Livingston,
John Morrison,
Edward F. Watson, '40,**WARD 5.**Tappan Wentworth, '36, '37, '39,
'40, *President*,
Samuel W. Brown, '40,
John J. Crane, '40,
Phineas Whiting.**WARD 6.**Francis H. Bowers,
Isaac H. Cooper,
William Potter,
John Smith.

JOHN G. LOCKE, CLERK.

1842.**Mayor:**

NATHANIEL WRIGHT.

Aldermen:

Nathaniel Thurston,
 Jefferson Bancroft, '39, '40, '41,
 Cyril French, '36, * '41,

William Livingston, '41,
 Ithamar A. Beard,
 John W. Graves.

THOMAS ORDWAY, CITY CLERK.

Common Council;

WARD 1.

Jeremiah P. Jewett,
 John Hadley,
 James Townsend,
 Edward J. Payne.

WARD 2.

John Nesmith, '39, '40,
 Erasmus D. Leavitt, '41,
 Joseph W. Mansur, *President*,
 James Hopkins.

WARD 3.

Nathaniel Critchett, '41,
 Ira Spalding,
 John Mead,
 Asa W. Willoughby.

WARD 4.

John Morrison, '41,
 William Carlton,
 Oliver March,
 Josiah B. French, '36.

WARD 5.

James Patterson,
 Isaac Appleton,
 Josiah Seavey,
 Roswell Douglass.

WARD 6.

James Russell, '36, '37,
 Jonathan Kendall,
 Varnum A. Shedd,
 Isaac N. Fitts.

JOHN G. LOCKE, CLERK.

1843.**Mayor:**

NATHANIEL WRIGHT, † '42.

Aldermen;

Harlin Pillsbury, '39, * '40, res'd June,
 Henry C. Johnson,
 Cyril French, '36, * '41, * '42,

S. Spalding, '36, resigned in June.
 Joseph Griffin,
 Charles L. Tilden, * '38, '39.

THOMAS ORDWAY, CITY CLERK.

Common Council:

WARD 1.

Daniel Bixby,
 Edward J. Payne, '42,
 Hugh Cummiskey,
 Walter Wright, '37, '38, '39.

WARD 2.

Henry J. Baxter, '36, '38, '39,
 John P. Simonds,
 Pliny Lawton,
 Ben Osgood.

WARD 3.

John Mead, '42,
 Willard Brown,
 Ira Spalding, '42,
 Benjamin J. Gerrish.

WARD 4.

Otis Allen,
 Alfred Gilman,
 Oliver March, '42, *President*,
 William Carlton, '42.

WARD 5.

James Patterson, '42,
 David Bradt,
 John L. Tripp,
 Benjamin F. Holden.

WARD 6.

John B. McAlvin,
 Cyrus Battles,
 Sewall G. Mack,
 Charles F. Mitchell.

JOHN G. LOCKE, CLERK.

1844.**Mayor:**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41.

Aldermen:Henry Smith,
Selwin Bancroft,
O. M. Whipple, *'36, *'38, *'39.Edward F. Watson, '40, '41,
Joseph Griffin, *'43,
John Wright.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Forrest Eaton, '39, '40,
Gilman N. Nichols,
Hugh Cummiskey, '43,
David Healey.**WARD 2.**John P. Simonds, '43,
Ben Osgood, '43,
Amos Merriam,
John Clark, ‡'36, *'39, *President*.**WARD 3.**Charles B. Coburn,
George Choate,
Isaac Scripture,
William C. Gray.**WARD 4.**Asa Wetherbee,
Abner W. Buttrick, '40,
Horatio G. F. Corliss,
Charles H. Wilder, '37.**WARD 5.**John L. Tripp, '43,
David Bradt, '43,
John Wright,
Nathaniel Wright, Jr.**WARD 6.**Sewall G. Mack, '43,
James Russell, '36, '37, '42,
Jonathan Kendall, '42,
Gilman Gale.

JOHN G. LOCKE, CLERK.

1845.**Mayor.**

ELISHA HUNTINGTON, ‡'37, ‡'38, †'39, †'40, †'41, †'44.

Aldermen:Henry Smith, *'44,
Selwin Bancroft, *'44,
O. M. Whipple, *'36, *'38, *'39, *'44,Edward F. Watson, '40, '41, *'44,
John C. Dalton,
Daniel Knapp, '39.

THOMAS ORDWAY, CITY CLERK.

Common Council.**WARD 1.**Gilman N. Nichols, '39.
Danforth P. Brigham,
Jonathan Adams,
Willard C. Welch.**WARD 2.**John P. Simonds, '43, '44,
Daniel Balch,
William Brown,
Daniel S. Richardson, *President*.**WARD 3.**Isaac Scripture, '44,
William C. Gray, '44,
George Choate, '44,
Hapgood Wright.**WARD 4.**Abner W. Buttrick, '40, '44,
Asa Wetherbee, '44,
Charles H. Wilder, '37, '44,
Josiah Sawtell.**WARD 5.**Nathaniel Wright, Jr., '44,
Amos Hyde,
Edward Sherman,
James Fenno.**WARD 6.**Gilman Gale, '44,
John B. McAlvin, '43,
Samuel Fay, Jr.,
Lorenzo P. Wright.

JOHN G. LOCKE, CLERK.

1846.**Mayor:**

JEFFERSON BANCROFT, '39, '40, * '41, * '42.

Aldermen:

Henry Smith, * '44, * '45,
 Sewin Bancroft, 44, * '45,
 William C. Gray, '44, '45,
 Joseph Butterfield,

John C. Dalton, '45,
 L. Knapp, '39, * '45, resigned July,
 Isaac Cooper, '41, elected August.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

Gilman N. Nichols, '39, '45,
 Danforth P. Brigham, '45,
 Willard C. Welch, '45,
 Thomas S. Hutchinson.

WARD 2.

Daniel Balch, '45,
 William Brown, '45,
 Daniel S. Richardson, ‡ '45, *President*,
 Zadock Rogers.

WARD 3.

Hapgood Wright, '45,
 Isaac Farrington,
 Joel Powers,
 Franklin Mead.

WARD 4.

Josiah Sawtell, '45,
 Solon Stevens,
 David J. Moody,
 William Fletcher.

WARD 5.

Amos Hyde, '45,
 Horatio G. F. Corliss, '44,
 Jonathan Bowers, '36,
 Charles M. Short.

WARD 6.

Lorenzo P. Wright, '45,
 John L. Fitts, '39, '40,
 Lewis Packard,
 Columbus J. Hubbard.

JOHN G. LOCKE, CLERK.

1847.**Mayor:**

JEFFERSON BANCROFT, '39, '40, * '41, * '42, † '46.

Aldermen:

George Bragdon,
 Joseph Butterfield, * '46,
 Linus Child,
 James Fenno, '45,

Elisha Huntington, ‡ '37, ‡ '38,
 † '39, † '40, † '41, † '44, † '45,
 Sewall G. Mack, '43, '44,
 Stephen Mansur, '36, '39, * '40,
 Josiah Sawtell, '45, '46.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

William Conihe,
 James C. Crombie,
 David S. Bachelder,
 Jesse Huse.

WARD 2.

Samuel W. Brown, '40, '41,
 Hannibal Powers,
 William Newman,
 Otis L. Allen.

WARD 3.

Joel Powers, '46,
 Franklin Mead, '46,
 Isaac Farrington, '46,
 Samuel G. Davis.

WARD 4.

Joel Adams, *President*,
 Horatio Fletcher,
 Solon Stevens, '46,
 Stephen A. Coburn.

WARD 5.

Ignatius Tyler,
 Edward C. Johnson,
 Elihu Gates,
 Charles M. Short, '46.

WARD 6.

Thomas Wentworth,
 Isaac N. Parker,
 John R. Southwick,
 Isaiah Morse.

JOHN G. LOCKE, CLERK.

1848.**Mayor:**

JEFFERSON BANCROFT, '39, '40, * '41, * '42, † '46, † 47

Aldermen:

David Dana, '36, '38,
 Erastus Douglass, '36, '38,
 Jacob Graves, resigned in June,
 William Newman, '47,

Gilman N. Nichols, '39, '45, '46,
 Daniel S. Richardson, † '45, † '46,
 Josiah Sawtell, '45, '46, * '47,
 O. M. Whipple, * '36, * '38, * '39, * '45.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

William Conihe, '47,
 James C. Crombie, '47,
 Jesse Huse, '47,
 Gerry Wilson.

WARD 2.

Otis L. Allen, '47,
 William H. Flagg,
 John Nesmith, '39, '40, '42,
 Hannibal Powers, '47.

WARD 3.

Alfred Gilman, '43,
 Thomas Hopkinson, '38, '39, *President*,
 Ransom Reed,
 Nathaniel Critchett, '41, '42.

WARD 4.

John Avery,
 Otis Allen, '43,
 Abiel Rolfe,
 Horace Howard, '36, '38.

WARD 5.

Ignatius Tyler, '47,
 Elihu Gates, '47,
 Edward C. Johnson, '47,
 Charles M. Short, '46, '47.

WARD 6.

Thomas Wentworth, '47,
 Isaac N. Parker, '47,
 Jeremiah M. Currier,
 Horace Parmenter.

JOHN G. LOCKE, CLERK.

1849.**Mayor:**

JOSIAH B. FRENCH, '36, '42.

Aldermen:

James B. Francis,
 Cyril French, '36, * '41, * '42, * '43,
 James H. B. Ayer,
 Daniel D. Crombie,

Daniel Carter,
 George Brownell, '36, '37, * '38,
 Artemas L. Brooks,
 Joseph Bedlow, * '40.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

Jesse Huse, '47, '48, resigned Feb.,
 William A. Richardson, elected March,
 Gerry Wilson, '48,
 John W. Smith,
 Alfred S. Saunders.

WARD 2.

William H. Flagg, '48,
 Ivers Taylor,
 Isaac S. Morse, resigned,
 Ambrose Lawrence.

WARD 3.

Alfred Gilman, '43, '48,
 Elisha Davis,
 James Dunsmoor,
 Andrew C. Waeclöck.

WARD 4.

Nathaniel B. Favor,
 Galeb Crosby,
 Ezekiel Wright,
 Waldo A. Fisher.

WARD 5.

Maynard Bragg,
 Joshua Decatur,
 Abram T. Melvin,
 W. W. Morse.

WARD 6.

William Lamson, Jr.,
 Jeremiah M. Currier, '48,
 George S. Wright,
 John Aiken, * '37, * '41, *President*.

GEORGE A. BUTTERFIELD, CLERK.

1850.**Mayor:**

JOSIAH B. FRENCH, '36, '42, † '49.

Aldermen:

James H. B. Ayer, * '49,
Joseph Bedlow, * '40, * '49,
Daniel D. Crombie, * '49,
James B. Francis, * '49,

Philip Hardy,
John Mixer, '36, '38,
Josiah G. Peabody,
James Townsend, '42.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

John W. Smith, '49,
Daniel R. Kimball,
James Watson,
Jonathan Smothers.

WARD 2.

Ivers Taylor, '49, *President*.
George Gardner,
Samuel Lawrence, 2d,
Samuel J. Varney.

WARD 3.

Jonathan Page,
John Tripp,
Fordyce Coburn,
Joshua Merrill.

GEO. A. BUTTERFIELD, CLERK, res'd May. WM. LAMSON, JR, elc'td May.

WARD 4.

Abner W. Buttrick, '40, '44, '45,
Caleb Crosby, '49,
Benjamin Goddard,
Nathaniel B. Favor, '49.

WARD 5.

George P. Elliot,
William Fiske, '37, '38, '41,
George W. Worthen,
Maynard Bragg, '49.

WARD 6.

Albert Mallard,
Stephen P. Sargent,
George S. Wright, '49,
Wm. Lamson, Jr., '49, res'd May.

1851.**Mayor:**

JAMES H. B. AYER, * '49, * '50.

Aldermen:

William Fiske, '37, '38, '41, '50,
Ambrose Lawrence, '40,
James Townsend, '42, * '50,
Philip Hardy, * '50,

William North, '37,
Abiel Rolfe, '48,
Lucius A. Cutler,
Joshua Converse, '40.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**

James Watson, '50,
Jonathan Smothers, '50,
Charles B. Coburn, '44,
Stephen Moar.

WARD 2.

Linus Child, * '47,
George Gardner, '50, *President*,
Samuel J. Varney, '50,
Zachariah B. Caverly.

WARD 3.

Fordyce Coburn, '50,
William Twichell,
Darius C. Brown,
Benjamin C. Sargent.

WARD 4.

Benjamin Goddard, '50,
Richard Dennis,
Holland Streeter,
Solomon D. Emerson.

WARD 5.

George P. Elliot, '50,
Edward Fifield,
John N. Ford,
Theodore H. Sweetser.

WARD 6.

George W. Worthen, '50.
George W. Jones, died Sept.,
Stephen P. Sargent, '50,
Albert Mallard, '50.

WILLIAM LAMSON, JR., CLERK.

1852.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44, †'45, *'47

Aldermen:Joseph Pedlow, *'40, *'49, *'50,
Joseph M. Bullens,
Samuel Burbank, '40, '41,
Joseph B. V. Coburn,Wm. Fiske, '37, '38, '41, '50, *'51,
William North, '37, *'51,
Alpha Stevens,
Samuel J. Varney, '50, '51.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Rufus Rogers,
John C. Smith,
Jeremiah Clark,
Paul Hill.**WARD 2.**Paul Perkins,
Milton Bonney,
William Hovey,
Zachariah B. Caverly, '51.**WARD 3.**Darius C. Brown, '51,
William Twichell, '51,
Benjamin C. Sargeant, '51, *President*,
Michael B. Caswell.**WARD 4.**Holland Streeter, '51,
Elbridge Livingston,
Abram French,
Willard Minot.**WARD 5.**Edward Fifield, '51,
Phineas Whiting, '41,
George W. Patterson,
Jonathan Kendall, '42, '44.**WARD 6.**Leonard W. Jaquith,
Seth Pooler,
Caleb G. Weaver,
William C. Parker.

WILLIAM LAMSON, JR., CLERK.

1853.**Mayor:**

SEWALL G. MACK, '43, '44, *'47.

Aldermen:Elisha Huntington, †'37, †'38, †'39,
†'40, †'41, †'44, †'45, *'47, †'52,
Samuel K. Hutchinson,
Stephen Mansur, '36, '39, *'40, *'47,
Joseph B. V. Coburn, *'52,Ira Spalding, '42, '43,
Joseph M. Bullens, *'52,
Alpha Stevens, *'52,
Joseph White.

THOMAS ORDWAY, CITY CLERK.

Common Council:**WARD 1.**Rufus Rogers, '52,
John C. Smith, '52,
Marcus A. Thomas,
James Cook, '36.**WARD 2.**Paul Perkins, '52,
Milton Bonney, '52,
George G. Bumpus,
George W. Stanley.**WARD 3.**Michael B. Caswell, '52,
Calvin Philbrick,
Leonard Brown,
Henry H. Wilder.**WARD 4**Abram French, '52,
Henry C. Howe,
Joseph S. Grush,
Samuel K. Pickering.**WARD 5.**George W. Patterson, '52,
Wm. A. Richardson, '49, *President*,
Patrick Conlan,
Jonathan Bowers.**WARD 6.**Caleb G. Weaver, '52,
William C. Parker, '52,
George F. Woods,
C. F. Blanchard.

WILLIAM LAMSON, JR. CLERK.

1854.**Mayor:**

SEWALL G. MACK, '43, '44, * '47, † '53.

Aldermen:

Elisha Huntington. † '37, † '38, † '39, † '40,
 † '41, † '44, † '45, * '47, † '52, * '53,
 J. B. V. Coburn, * '52, * '53, res'd Jan.,
 Samuel K. Hutchinson, * '53,
 Ira Spalding, '42, '43, * '53,

Joseph White, * '53,
 Horatio Fletcher, '47,
 C. F. Blahchard, '53,
 Charles Sperry.

WILLIAM LAMSOM, JR. CITY CLERK.

Common Council.**WARD 1.**

John C. Smith, '52, '53,
 Paul Hill, '52,
 Marcus A. Thomas, '53,
 Thomas Lennon.

WARD 2.

George W. Stanley, '53,
 William H. Gage,
 Amos A. Taylor,
 William H. Bradley.

WARD 3.

Calvin Philbrick, '53,
 Leonard Brown, '53, declined,
 Darius C. Brown, '51, '52, elected,
 Henry H. Wilder, '53,
 Peter O. C. Frawley.

WARD 4.

Henry C. Howe, '53,
 Joseph S. Grush, '53,
 Samuel K. Pickering, '53,
 Hubbard Wilson.

WARD 5.

William A. Richardson, 49, † '53,
President,
 Jonathan Bowers, '53,
 Patrick Conlan, '53,
 John C. Woodward.

WARD 6.

George F. Woods, '53,
 Charles S. Eastman,
 Levi H. Straw,
 William P. Webster.

LEONARD BROWN, CLERK.

1855.**Mayor.**

AMBROSE LAWRENCE, '49, '51.

Aldermen:

Wm. Fiske, '37, '38, '41, '50, * '51, * '52.
 Artemas L. Brooks, * '49,
 Daniel Woodward,
 Lorenzo G. Howe,

Andrew T. Nute,
 Abner Frost,
 William S. Johnston,
 Shadrach R. Brackett.

WILLIAM LAMSON, JR., CITY CLERK.

Common Council:**WARD 1.**

Maynard Bragg, '49, '50,
 Aaron B. Young,
 Augustus B. Roby,
 George L. Harris.

WARD 2.

William G. Morse,
 George K. Paul,
 Mark H. Cook,
 Joseph A. Patten.

WARD 3.

Alfred Gilman, '43, '48, '49, *President,*
 Daniel Hurd,
 Theodore Warren,
 Stephen K. Fielding.

WARD 4.

Joshua W. Daniels,
 John Bennett,
 Alanson Folsom,
 Francis H. Nourse.

WARD 5.

John C. Woodward, '54,
 Stephen Bartlett,
 Jonathan Johnson,
 Oliver P. Rand.

WARD 6.

Livi H. Straw, '54,
 William T. Whitten,
 Lucien P. Stacy,
 James M. Moore.

LEONARD BROWN, CLERK.

1856.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41, †'44,
†'45, *, 47, †'52, *, '53, *, '54.

Aldermen:

Edward Tuck,
Samuel Burbank, '40, '41, * 52,
Charles B. Coburn, '44,
William P. Webster, '54,
Hapgood Wright, '45, '46,

Charles, H. Wilder, '37, '44, '45,
O. J. Conant, resigned in March,
James H. Rand,
Jonathan Johnson, elected in June,

WILLIAM LAMSON, JR., CITY CLERK.

Common Council:**WARD 1.**

Enos O. Kingsley,
Abiel Pevey,
David M. Collins,
Marshall E. Thompson.

WARD 2.

Isaac Hinckley,
Seth Gage,
Peter Flanders, Jr.,
Leonard F. Jewell.

WARD 3.

David Rogers,
Benj. C. Sargeant, '51, †'52, *President*,
Henry H. Carroll,
Peter Powers.

WARD 4.

Francis N. Nourse, '55,
Alden B. Buttrick,
Holland Streeter, '51, '52,
James Sands.

WARD 5.

Frederick Holton,
Isaac Place,
Albert Wheeler,
Abiel Rolfe, '48, *, '51.

WARD 6.

Eliphalet Hills,
Jonathan P. Folsom,
James K. Fellows, '37,
John K. Chase.

JAMES J. MAGUIRE, CLERK.

1857.**Mayor:**

STEPHEN MANSUR, 36, 39, * 40, * 47, * 53.

Aldermen:

Andrew T. Nute, * '55,
John C. Woodward, 54, '55,
Jonathan Smothers, '50, '51,
Samuel W. Stickney,

John B. Tuttle,
Francis H. Nourse, '55, '56,
Jonathan Johnson, '55, * 56,
John Nesmith, '39, '40, '42, '48.

WILLIAM LAMSON, JR., CITY CLERK.

Common Council:**WARD 1.**

Abiel Pevey,
Stephen T. Stanley,
Charles A. Welch,
George F. Scribner.

WARD 2.

William G. Morse, '55,
William D. Vinall,
Temple Tebbetts,
James M. Howe.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
David Rogers, '56,
Henry H. Carroll, '56,
Nathan Allen.

WARD 4.

Caleb Crosby, '49, '50,
John F. Howe,
John C. Jepson,
Alanson Nichols.

WARD 5.

Frederick Holton, '56, *President*,
William H. Wiggin,
William Goodale,
Charles Hubbard.

WARD 6.

Erastus Boyden,
Jonathan Kimball,
Robert J. Garrett,
William Nichols.

HENRY A. LORD, CLERK.

1858.**Mayor:**

ELISHA HUNTINGTON, †'37, †'38, †'39, †'40, †'41,
†'44, †'45, *'47, *'52, *'53, *'54, †'56.

Aldermen:

Sewall G. Mack, '43, '44, *'47, †'53, †'54,
Samuel W. Stickney, *'57,
Abiel Pevey, '56, '57,
Jeremiah P. Jewett, '42,

Joseph M. Dodge, '37,
Harvey Silver,
Albert Wheeler, '56,
Edwin A. Alger.

JOHN H. MCALVIN, CITY CLERK.

Common Council:**WARD 1.**

Charles Wilkins,
John M. Maynard,
John E. Webb,
William Barnard.

WARD 2.

Edward Tuck, *'55,
William P. Webster, '54, *'56,
Andrew Blood,
William F. Salmon.

WARD 3.

Benjamin C. Sargeant, '51, †'52, †'56,
'57, *President*,
Hanover Dickey,
Joseph A. Brabrook,
Benjamin S. Butterworth.

WARD 4.

Enoch P. Young,
Zephaniah Goward,
Jesse Blake,
John F. Howe, '57.

WARD 5.

Willard Dudley,
Samuel T. Manahan,
Isaac Page,
John Avery, 2d.

WARD 6.

William Nichols, '57,
Alpha B. Farr, resigned in Jan.,
Leonard Brown, '53, '54, elec'd Feb.
Erastus Boyden, '57,
James H. Rand, *'56, resign'd May,
Eben'r Burgess, elected, in June.

GEORGE GARDNER, CLERK.

1859.**Mayor:**

JAMES COOK, '36 '53.

Aldermen:

Lorenzo G. Howe, *'55,
Samuel J. Varney, '50, '51, *'52,
Paul Hill, '52, '54,
Ambrose Lawrence, '49, '51, †'55, re-
signed in April,
Darius C. Brown, '51, '52,

John F. Howe, '57, '58,
Joshua Converse, '40, *'51, re'd Apr.
J. P. Folsom, '56, resign'd in April,
Edward Tuck, *'56, '58, elect'd May,
Sam'l T. Manahan, '58, elec'd May,
Jonathan Ladd, elected in May.

JOHN H. MCALVIN, CITY CLERK.

Common Council:**WARD 1.**

John E. Webb, '58,
Charles Wilkins, '58,
William Barnard, '58,
William D. Blanchard.

WARD 2.

W. P. Webster, '54, *'56, '58, *President*,
William F. Salmon, '58,
James M. Howe, '57,
David Nichols.

WARD 3.

George Hobson,
Asahel D. Puffer,
John Willoughby,
Benjamin S. Butterworth, '58.

WARD 4.

Caleb Crosby, '49, '50, '57,
Jesse Blake, '58,
George W. Partridge,
George W. Young.

WARD 5.

Horatio G. F. Corliss, '44, '46,
Luther B. Morse,
Josiah G. Peabody, *'50,
William Goodale, '57.

WARD 6.

Charles A. Stott,
Levi Sprague,
Ebenezer Burgess, '58,
Leonard Brown, '53, '54, '58.

GEORGE GARDNER, CLERK.

1860.**Mayor:**

BENJAMIN C. SARGEANT, '51, ‡ '52, ‡ '56, '57, ‡ '58.

Aldermen:

Edward F. Watson, '40, '41, * '44, * '45.
 Lorenzo G. Howe, * '55, * '59,
 James Watson, '50, '51,
 William G. Morse, '55, '57,

Henry H. Wilder, '53, '54,
 Abner Frost, * '55,
 Samuel T. Manahan, '58, * '59,
 William S. Gardner.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Benjamin S. Ireson,
 Enoch Quimby,
 John P. Slocum,
 Amos H. Foster.

WARD 2.

Henry P. Clough,
 Alfred S. Saunders, '49,
 Wm. F. Salmon, '58, '59, *President*,
 Joseph L. Sargent.

WARD 3.

George Hobson, '59,
 Josiah B. Fielding,
 Henry P. Perkins,
 Hocum Hosford.

WARD 4.

George W. Partridge, '59,
 George W. Young, '59,
 Morrill M. Lohanan,
 Caleb Crosby, '42, '50, '57, '59.

WARD 5.

Josiah G. Peabody, * '50, '59,
 Sullivan L. Ward,
 George F. Mercy,
 William H. Lamsen.

WARD 6.

William Nichols, '57, '58.
 Samuel T. Lancaster,
 Charles A. Stott, '59,
 Foster Nowell.

GEORGE GARDNER, CLERK.

1861.**Mayor:**

BENJAMIN C. SARGEANT, '51, ‡ '52, ‡ '56, '57, ‡ '58, † '60.

Aldermen:

Samuel T. Manahan, '58, * '59, * '60,
 Jonathan P. Polson, '56, * '59,
 James Watson, '50, '51, * '60,
 William G. Morse, '55, '57, * '60,
 Hocum Hosford, '60,

Aldis L. Waite,
 David Whitney, declined acceptance,
 Sager Ashworth, elected in May,
 William S. Gardner, * '60.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Frank E. Jewett,
 M. Gilbert Perkins,
 Jacob Eason,
 William D. Blanchard, '59,

WARD 2.

Alfred S. Saunders, '49, '60,
 Joseph L. Sargent, '60,
 Henry P. Clough, '60,
 Henry S. Orange.

WARD 3.

William L. North, *President*,
 George W. Norris,
 Henry P. Perkins, '60,
 James G. Morrison.

WARD 4.

Joseph Cater,
 Joseph B. Keyes,
 Morrill M. Dohonan, '60,
 Abel M. Ayer.

WARD 5.

Sullivan L. Ward, '60,
 Samuel Beck,
 William H. Parker,
 George F. Mercy, '60.

WARD 6.

Samuel T. Lancaster, '60.
 Foster Nowell, '60,
 Elon A. Sanborn,
 George E. Dana.

GEORGE GARDNER, CLERK.

1862.**Mayor:****HOCUM HOSFORD, '60, * '61.****Aldermen:**

Mertoun C. Bryant,
 Edwin A. Alger, * '53,
 James B. Francis, * '49, * '50,
 William A. Burke,

Isaac F. Scripture
 Aldis L. Waite, * '61,
 Albert Wheeler, '56, * '58,
 Jona. P. Folsom, '56, * '59, * '61.

JOHN H. McALVIN, CITY CLERK.**Common Council.****WARD 1.**

Amos D. Wright,
 Frank E. Jewett, '61,
 Horatio G. Burgess,
 Charles F. Hard.

WARD 2.

Benedict O. Carpenter,
 William T. McNeill,
 Lorenzo G. Howe, * '55, * '58, * '60,
 Henry S. Orange, '61.

WARD 3.

George W. Norris, '61,
 Edmund D. Fletcher,
 Everett W. French,
 John Quinn.

WARD 4.

Joseph B. Keyes, '61,
 George Runels,
 John Pettingell,
 Hubbard Wilson, '54.

WARD 5.

Rollin C. Downs,
 Albert Mallard, '50, '51,
 Edward Fifield, '51, '52,
 Cleveland J. Cheney.

WARD 6.

Geo. F. Richardson, *President*,
 Albion J. Dudley,
 Elon A. Sanborn, '61,
 Frederick Frye.

GEORGE GARDNER, CLERK.**1863.****Mayor.****HOCUM HOSFORD, '60, * '61, † '62.****Aldermen:**

James B. Francis, * '49, * '50, * '62,
 Edwin A. Alger, * '58, * '62,
 Abiel Pevey, '56, '57, * '58,
 William A. Burke, * '62,

Isaac F. Scripture, * '62,
 Otis Allen, '43, '48,
 Albert Wheeler, '56, * '58, * '62,
 William Nichols, '57, '58, '60.

JOHN H. McALVIN, CITY CLERK.**Common Council:****WARD 1.**

Charles F. Hard, '62,
 Amos D. Wright, '62,
 John Cosgrove,
 William A. Wright.

WARD 2.

George F. Sawtell,
 Henry S. Orange, '61, '62,
 Hugh McEvoy,
 Nathaniel Stearns.

WARD 3.

Everett W. French, '62,
 Fordyce Coburn, '53, '51,
 Edmund D. Fletcher, '62,
 John Quinn, '62.

WARD 4.

Atwell F. Wright,
 Josiah Gates,
 William Stafford,
 John McCann.

WARD 5.

James C. Ayer,
 Charles W. Saunders,
 Cyrus H. Latham,
 John E. Downs.

WARD 6.

Geo. F. Richardson, † '62, *President*,
 Albion J. Dudley, '62,
 Benedict O. Carpenter, '62,
 Frederick Frye, '62.

GEORGE GARDNER, CLERK.

1864.**Mayor:**

HOCUM HOSFORD, '60, *'61, †'62, †'63.

Aldermen:

William S. Southworth,
 James B. Francis, *'42, *'50, *'62, *'63,
 Dana B. Gove,
 William T. McNeill, '62,

George W. Norris, '61, '62,
 George Runels, *'62,
 Cyrus H. Latham, '63,
 George F. Richardson, †'62, †'63.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Alden B. Watson,
 Lewis L. Perrin,
 Frederick S. Tukey,
 John Cosgrove, '63.

WARD 2.

George Ripley, *President*,
 Andrew F. Jewett,
 Artemas S. Young,
 Hoyt W. Hilton.

WARD 3.

Samuel N. Wood,
 Charles W. Dodge,
 Joseph S. Pollard,
 James G. Morrison, '61,

WARD 4.

Atwell F. Wright, '63,
 Daniel Churchill,
 William W. Sherman,
 Francis Jewett.

WARD 5.

John E. Downs, '63,
 Thos. G. Gerrish, res'd June 14,
 Charles Hubbard, '57,
 Cleveland J. Cheney, '62.

WARD 6.

Levi Sprague, '59,
 Tobias L. P. Lamson,
 Addison Putnam,
 Albion J. Dudley, '62, '63.

GEORGE GARDNER, CLERK.

1865.**Mayor:**

JOSIAH G. PEABODY, *'50, '59, '60.

Aldermen:

Edw'd F. Watson '40, '41, *'44, *'45, *'60,
 George W. Norris, '61, '62, *'64,
 Dana B. Gove, *'64,
 William T. McNeill, '62, *'64,

Henry H. Wilder, '53, '54, *'60,
 Josiah Gates, '63,
 Cyrus H. Latham, '63, *'64,
 William Brown, '45, '46.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Alden B. Watson, '64,
 Lewis L. Perrin, '64,
 George N. Osgood,
 John R. Southwick, '47.

WARD 2.

George Ripley, †'64, *President*,
 Andrew F. Jewett, '64,
 Julian V. Keyes,
 Chester W. Rugg.

WARD 3.

Joseph S. Pollard, '64,
 Charles W. Dodge, '64,
 Edward C. Rice,
 Frederick T. North.

WARD 4.

Francis Jewett, '64,
 Benjamin Walker,
 Benjamin L. Googins,
 John Pearson.

WARD 5.

Charles Hubbard, '57, '64,
 James Kent,
 Simcon D. Osterhoudt,
 James Foster.

WARD 6.

Tobias L. P. Lamson, '64,
 Luke C. Dodge,
 Gustavus A. Gerry,
 James M. Moore, '55.

GEORGE GARDNER, CLERK.

1866.**Mayor:****JOSIAH G. PEABODY**, * '50, '59, '60, † '65.**Aldermen:**

Samuel A. Brown,
 Albert B. Plimpton,
 John R. Southwick, '47, '65,
 Joseph L. Sargent, '60, '61,

Charles W. Dodge, '64, '65,
 Josiah Gates, '63, * '65,
 Henry M. Hooke,
 Albion J. Dudley, '62, '63, '64.

JOHN H. MCALVIN, CITY CLERK.**Common Council:****WARD 1.**

William A. Hodge,
 William A. Wright, '63,
 Jacob Baron, '61,
 Rollin C. Downs, '62.

WARD 2.

Andrew F. Jewett, '64, '65,
 George H. Whitmore,
 Julian V. Keyes, '65,
 Chester W. Rugg, '65.

WARD 3.

Edward C. Rice, '65,
 Frederick T. North, '65,
 James N. Pinkham,
 Oliver W. Smith.

WARD 4.

Benjamin L. Googins, '65,
 Alfred Scott,
 Thomas F. Burgess,
 Benjamin Walker, '65.

WARD 5.

Robert H. Butcher,
 John T. Lee,
 George L. Huntoon,
 Jonathan Johnson, '55, * '56, * '57.

WARD 6.

Gustavus A. Gerry, '65, *President*,
 Luke C. Dodge, '65,
 Charles A. Kimball,
 Alfred H. Chase.

GEORGE GARDNER, CLERK.**1867.****Mayor:****GEORGE F. RICHARDSON**, † '62, † '63, * '64.**Aldermen:**

Charles B. Coburn, '44, '51, * '55,
 Hocom Hosford, '60, * '61, † '62, † '63, † '64,
 John R. Southwick, '47, '65, * '66,
 Joseph L. Sargent, '60, '61, * '66,
 Edward C. Rice, '65, '66,

Abner W. Buttrick, '40, '44, '45, '50;
 died June 29, '67,
 Wm. E. Livingston, el. Sept. 9, '67,
 Wm. H. Parker, '61,
 Albion J. Dudley, '62, '63, '64, * '66.

JOHN H. MCALVIN, CITY CLERK.**Common Council:****WARD 1.**

John Shepard,
 Calvin Sawtell,
 Foster Wilson,
 M. Gilbert Perkins, '61.

WARD 2.

Gustavus A. Gerry, '65, † '66, *President*,
 Ruel J. Walker,
 William Dobbins,
 Silas Tyler, Jr.

WARD 3.

Jona. P. Folsom, '56, * '59, * '61, * '62,
 Frederick T. North, '65, '66,
 Samuel D. Prescott,
 Nathan M. Wright.

WARD 4.

John B. Hunt,
 John Q. A. Hubbard,
 Alfred Scott, '66,
 Thomas F. Burgess, '66.

WARD 5.

George L. Huntoon, '66,
 George S. Cheney,
 James Foster, '65,
 John T. Lee, '66,

WARD 6.

Alfred H. Chase, '66,
 James Lawton,
 John N. Peirce, Jr.,
 Foster Nowell, '60, '61, resigned.
 May 14, '67,
 Wm. Kittredge, elected Sept. 9, '67.

GEORGE GARDNER CLERK.

1868.**Mayor:**

GEORGE F. RICHARDSON, ‡ '62, ‡ '63, * '64, † '67.

Aldermen:

Charles B. Coburn, '44, '51, * '56, * '67,
 Francis Jewett, '64, '65,
 John M. Pevey, resigned in July,
 Charles L. Hildreth, elected in Sept.,
 Silas Tyler, Jr., '67,

Edward C. Rice, '65, '66, * '67,
 William E. Livingston, * '67,
 Frederick Frye, '62, '63,
 Albion J. Dudley, '62, '63, '64, * '66,
 † '67.

JOHN H. McALVIN, CITY CLERK.

Common Council:**WARD 1.**

Calvin Sawtell, '67,
 John Shepard, '67,
 John F. Merrill,
 Frederick T. Greenhalge.

WARD 2.

Francis D. Munn,
 Joseph A. Patten, '55,
 Ruel J. Walker, '67,
 Henry S. Orange, '61, '62, '63.

WARD 3.

George W. Badger,
 Samuel D. Prescott, '67,
 William Walker,
 Albert A. Haggett.

WARD 4.

William H. Anderson,
 John Q. A. Hubbard, '67,
 Charles T. Crane,
 John B. Hunt, '67,

WARD 5.

Edwin Lamson,
 George S. Cheney, '67,
 William Kelley,
 Ethan N. Spencer.

WARD 6.

John N. Peirce, Jr., '67,
 James Lawton, '67,
 Francis Brown,
 Alfred H. Chase, '66, '67, *President*.

GEORGE GARDNER, CLERK.

1869.**Mayor.**

JONATHAN P. FOLSOM, '56, * '59, * '61, * '62, '67.

Aldermen:

Francis Jewett, '64, '65, * '68,
 Henry H. Wilder, '53, '54, * '60, * '65,
 Charles L. Hildreth, * '68,
 Cyrus H. Latham, '63, * '64, * '65,

Hapgood Wright, '45, '46, * '56,
 John Q. A. Hubbard, '67, '68,
 George S. Cheney, '67, '68,
 Charles A. Stott, '59, '60.

JOHN H. McALVIN, CITY CLERK. Resigned March 15, 1869.

SAMUEL A. McPHETRES, CITY CLERK. Elected March 15, 1869.

Common Council:**WARD 1.**

Frederick T. Greenhalge, '68,
 John H. Durgin, Jr.,
 Patrick Keyes,
 Benjamin Patch.

WARD 2.

Joseph A. Patten, '55, '68,
 Phincas Jones,
 Francis D. Munn, '68,
 Amos Sanborn.

WARD 3.

George W. Badger, '68,
 Albert A. Haggett, '68,
 William Walker, '68,
 George E. Pinkham.

WARD 4.

William H. Anderson, '68, *President*,
 Simeon G. Lyford,
 Henry P. Carter,
 Epaphras A. Hill.

WARD 5.

William Kelley, '68,
 Willard A. Brown,
 William O. Fiske,
 Edwin Lamson, '68.

WARD 6.

Francis Brown, '68,
 Alpha B. Farr, '58,
 Lucian P. Stacy, '55,
 William Kittredge, '67.

GEORGE GARDNER, CLERK.

1870.**Mayor:**

JONATHAN P. FOLSOM, '56, *'59, *'61, *'62, '67, †'69.

Aldermen:

Edward F. Sherman,
 Frank F. Battles,
 Charles L. Hildreth, *'68, *'69,
 Amos B. French,

Hapgood Wright, '45, '46, *'56, *'69,
 John Q. A. Hubbard, '67, '68, *'69,
 Addison Putnam, '64,
 Charles A. Stott, '59, '60, *'69.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**

John H. Durgin, Jr., '69,
 Benjamin Patch, '69,
 Patrick Keyes, '69,
 Samuel G. Ladd.

WARD 2.

Phineas Jones, '69,
 John L. Moulton,
 Patrick Cummiskey,
 David G. Skillings,

WARD 3.

Albert A. Haggett, '68, '69, *President*,
 Henry P. Perkins, '60, '61,
 Hocum Hosford, '60, *'61, †'62, †'63,
 †'64, *'67, declined,
 Matthew Donovan,
 John L. Meadowcroft, elected Jan. 24.

WARD 4.

Epaphras A. Hill, '69,
 Henry P. Carter, '69,
 Simeon G. Lyford, '69,
 Michael Corbett.

WARD 5.

William O. Fiske, '69,
 Willard A. Brown, '69,
 James D. Hartwell,
 Jeremiah Crowley.

WARD 6.

Alpha B. Farr, '58, '69,
 William Kittredge, '67, '69,
 Lucian P. Stacy, '55, '69,
 John Stott.

GEORGE GARDNER, CLERK.

1871.**Mayor:**

EDWARD F. SHERMAN, *'70.

Aldermen:

Frank F. Battles, *'70,
 William F. Salmon, '58, '59, †'60,
 John W. Smith, '49, '50,
 Amos B. French, *'70,

Albert A. Haggett, '68, '69, †'70,
 Henry C. Howe, '53, '54,
 Frederick Ayer,
 Addison Putnam, '64, *'70.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council.**WARD 1.**

John H. Durgin, Jr., '69, '70,
 Samuel G. Ladd, '70,
 Francis N. J. Haviland,
 Joel Knapp.

WARD 2.

William Dobbins, '67,
 John L. Moulton, '70,
 Patrick Cummiskey, '70,
 Amos A. Blanchard.

WARD 3.

Henry P. Perkins, '60, '61, '70, *President*,
 John L. Meadowcroft, '70,
 Horace Ela,
 Julius C. Jockow.

WARD 4.

Benj. Walker, '65, '66,
 Michael Corbett, '70,
 Francis H. Chandler,
 Charles T. Goddard.

WARD 5.

Jeremiah Crowley, '70,
 Crawford Burnham,
 Henry C. Church,
 Patrick Lynch,

WARD 6.

Leonard Brown, '53, '54, '58, '59,
 John Stott, '70,
 Abel T. Atherton,
 Nathaniel C. Sanborn.

GEORGE GARDNER CLERK.

1872.**Mayor:**

JOSIAH G. PEABODY, * '50, '59, '60, † '65, † '66.

Aldermen:

Henry C. Howe, '53, '54, * '71,

Alexander G. Cumnock,

Benjamin Patch, '69, '70,

Gustavus A. Gerry, '65, † '66, † '67,

Frederick T. North, '65, '66, '67,

Benj. Walker, '65, '66, '71,

William Kelley, '68, '69,

Alpha B. Farr, '58, '69, '70.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

John E. Webb, '58, '59,

Alonzo F. Caswell,

Southwell Farrington,

True P. Jordan.

WARD 2.

Leonard Brown, '53, '54, '58, '59, '71,

Amos A. Blanchard, '71,

Joseph S. Brown,

Earl A. Thissell.

WARD 3.

Henry P. Perkins, '60, '61, '70, † '71,

Horace Ela, '71, [Pres.,

Julius C. Jockow, '71,

Charles F. Tilton.

WARD 4.

Nathaniel P. Favor,

Nathan W. Frye,

Henry A. Lord,

Alonzo L. Russell.

WARD 5.

Crawford Burnham, '71,

Charles F. Lelden,

Luther J. Eames,

William Shepard.

WARD 6.

Abel T. Atherton, '71,

Nathaniel C. Sanborn, '71,

Samuel M. Chase,

Julian Talbot.

GEORGE GARDNER, CLERK.

1873.**Mayor:**

FRANCIS JEWETT, '64, '65, * '68, * '69.

Aldermen:

Jonathan P. Folsom, '56, * '59, * '61,

* '62, '67, † '69, † '70,

George Runels, '62, * '64,

Edward Tuck, * '56, '53, * '59, declined,

Isaac Farrington, '45, '47, declined.

William Dobbins, '67, '71, elec. Jan. 14,

Charles A. F. Swan, elected Jan. 14,

Jacob H. Sawyer,

Jeremiah Crowley, '70, '71,

Alpha B. Farr, '53, '69, '70, * '72,

George Stevens.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

John E. Webb, '58, '59, '72,

Alonzo F. Caswell, '72,

Frank Brady,

Stephen J. Smiley.

WARD 2.

Joseph S. Brown, '72.

Earl A. Thissell, '72,

Daniel Stickney,

Edward P. Woods.

WARD 3.

[Pres.

Albert A. Haggett, '68, '69, † '70, * '71,

Charles F. Tilton, '72, resig'd March 1,

William Bass,

James Owens,

James A. Loughlin, elected April 8.

WARD 4.

Atwell F. Wright, '63, '64,

Nathaniel P. Favor, '72,

Nathan W. Frye, '72,

Henry A. Lord, '72.

WARD 5.

Robert H. Dutcher, '66,

Charles F. Belden, '72,

Jared P. Maxfield,

George Smith.

WARD 6.

Nathaniel C. Sanborn, '71, '72,

Samuel M. Chase, '72,

George W. S. Hurd,

Artemas S. Tyler.

GEORGE GARDNER, CLERK.

1874.**Mayor:**

FRANCIS JEWETT, '64, '65, * '68, * '69, † '73.

Aldermen:

Jeremiah Crowley, '70, '71, * '73,
 Benj. Walker, '65, '66, '71, * '72,
 Alonzo F. Caswell, '72, '73,
 Joseph S. Brown, '72, '73,

Jonathan Kendall, '42, '44, '52,
 George L. Huntoon, '66, '67,
 Nathaniel C. Sanborn, '71, '72, '73,
 George Stevens, * '73.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Charles A. Welch, '57,
 Frank Brady, '73,
 Stephen J. Smiley, '73,
 Charles H. Harvey.

WARD 2.

Daniel Stickney, '73,
 Edward P. Woods, '73,
 Charles J. Eastman,
 Edward E. Reed.

WARD 3.

Julius C. Jockow, '71, '72,
 James Owens, '73,
 James A. Loughlin, '73,
 George W. Tilton.

WARD 4.

Charles T. Goddard, '71,
 Nathan W. Frye, '72, '73, *President*,
 Jacob H. Sawyer, * '73,
 Julian A. Richardson.

WARD 5.

Jared P. Maxfield, '73,
 John B. Lyford,
 Samuel P. Marin,
 John Scott.

WARD 6.

George W. S. Hurd, '73,
 Joel A. Abbott,
 Thomas Carolin,
 Jason Fuller.

GEORGE GARDNER, CLERK, died May 29.

DAVID CHASE, CLERK, elected June 4.

1875.**Mayor:**

FRANCIS JEWETT, '64, '65, * '68, * '69, † '73, † '74.

Aldermen:

Benj. Walker, '65, '66, '71, * '72, * '74,
 Jacob Rogers,
 John A. Goodwin,
 Joseph S. Brown, '72, '73, * '74,

Hapgood Wright, '45, '46, * '56, * '69.
 James Owens, '73, '74,
 Alden B. Richardson,
 Samuel A. Chase.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Charles A. Welch, '57, '74,
 Charles H. Harvey, '74,
 John F. Howard,
 John W. Welch.

WARD 2.

Earl A. Thissell, '72, '73,
 Edward E. Reed, '74,
 William A. Read,
 Leavitt R. J. Varnum.

WARD 3.

Albert A. Hagggett, '68, '69, † '70, * '71,
 George W. Tilton, '74, [† '73, *Pres.*
 Charles Cowley,
 Thomas R. Garity.

WARD 4.

Josiah Butler,
 Francis Carll,
 Edward P. Dennis,
 Edward Stockman

WARD 5.

James D. Hartwell, '70,
 John B. Lyford, '74,
 Orford R. Blood,
 Charles W. Sleeper.

WARD 6.

Joel A. Abbott, '74,
 Thomas Carolin, '74,
 Jason Fuller, '74,
 Albert D. Wright.

DAVID CHASE, CLERK.

1876.**Mayor:**

CHARLES A. STOTT, '59, '60, *'69, *'70.

Aldermen:

Jacob Rogers, *'75,	Henry A. Hildreth,
John A. Goodwin, *'75, [† '73, † '75,	George E. Stanley,
Albert A. Haggett, '68, '69, † '70, *'71,	Francis Carll, '75,
Charles F. Belden, '72, '73.	William H. Wiggin, '57.

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

John W. Welch, '75,
 Lewis Stiles,
 Daniel W. Manning,
 David M. Collins, '56, declined,
 John F. Howard, '75, elected Jan. 11.

WARD 2.

Leavitt R. J. Varnum, '75,
 Charles E. Hallowell,
 Charles Callahan,
 William A. Read, '75.

WARD 3.

Charles Cowley, '75,
 Charles H. Kimball,
 Charles Runels,
 James Howard, died after election,
 William H. Grady, elected Jan. 11.

WARD 4.

Edward Stockman, '75, res. May 23,
 Gardner W. King,
 Stephen H. Jones,
 Charles D. Starbird,
 James W. Bennett, elected June 22.

WARD 5.

Orford R. Blood, '75,
 John F. Kimball, [*Pres. from* May 23,
 Charles H. Hanson,
 M. Gilbert Perkins, '61, '67.

WARD 6.

Edwin Sanborn,
 Benjamin C. Dean, *Pres.*, res. May 23,
 Charles H. Walker,
 John J. Pickman,
 Willis Farrington, elected June 22

DAVID CHASE, CLERK.

1877.**Mayor:**

CHARLES A. STOTT, '59, '60, *'69, *'70, † '76.

Aldermen:

Jeremiah Crowley, '70, '71, *'73, *'74,	Orford R. Blood, '75, '76, seat vacated,
Horace R. Barker,	Stephen B. Puffer, dec. el. Jan. 2,
George E. Stanley, *'76,	Robert Park,
Charles H. Kimball, '76,	George E. Pinkham, '69.
George P. Walker,	

SAMUEL A. MCPHETRES, CITY CLERK.

Common Council:**WARD 1.**

Daniel W. Manning, '76,
 Lewis Stiles, '76,
 John Courtney,
 Frank Brady, '73, '74, res. March 27,
 Jared P. Maxfield, '73, '74, elec. May 8.

WARD 2.

Charles E. Hallowell, '76,
 Francis D. Munn, '68, '69,
 Charles H. Robbins,
 Oliver M. Harding.

WARD 3.

William H. Grady, '76,
 Patrick Lynch,
 Simon Kelly,
 George E. Davis.

WARD 4.

Gardner W. King, '76,
 James W. Bennett, '76,
 Irving K. Goodale,
 Orlando Blodgett.

WARD 5.

John F. Kimball, † '76, *President*,
 Charles H. Hanson, '76,
 Peter S. Coburn,
 Robert Goulding.

WARD 6.

Edwin Sanborn, '76,
 John J. Pickman, '76,
 Charles H. Walker, '76,
 Augustus E. Spaulding, d. Jan. 10,
 George S. Cushing, elected Feb. 6.

DAVID CHASE, CLERK.

1878.**Mayor:****JOHN A. G. RICHARDSON.****Aldermen:**

Stephen B. Puffer, * '77,
Robert Park, * '77,
Horace R. Barker, * '77,
George F. Scribner, '57,

George E. Scripture,
Joseph S. Pollard, '64, '65, [* '77,
Jeremiah Crowley, '70, '71, * '73, * '74,
Nathaniel C. Sanborn, '71, '72, '73, * '74.

SAMUEL A. MCPHETRES, CITY CLERK.**Common Council:****WARD 1.**

John Courtney, '77,
John J. Mealey,
Joseph M. Ambrose,
Charles H. Harvey, '74, '75.

WARD 2.

Oramel A. Brigham,
Edward M. Tucke,
William W. Clark,
Albert W. Monty.

WARD 3.

Simon Kelly, '77,
Edward Cawley,
Henry P. Morris,
Samuel D. Butterworth.

WARD 4.

Irving K. Goodale, '77,
Orlando Blodgett, '77,
Robert G. Bartlett,
Stephen H. Jones, '76.

WARD 5.

Robert Goulding, '77,
Peter S. Coburn, '77,
John F. Kimball, † '76, † '77, *President*,
Enos O. Kingsley, '56.

WARD 6.

George S. Cushing, '77,
Eli W. Hoyt,
Luke B. Taylor,
Miles F. Brennan, to Jan. 22,
Thomas Nesmith, from Jan. 22.

DAVID CHASE, CLERK,**1879.****Mayor:****JOHN A. G. RICHARDSON, † '78.****Aldermen:**

Horace R. Barker, * '77, * '78,
Charles A. R. Dimon,
Joseph S. Pollard, '64, '65, * '78,
Charles S. Lilley,

George E. Scripture, * '78,
George F. Scribner, '57, * '78,
Charles F. Howe,
Robert Goulding, '77, '78.

SAMUEL A. MCPHETRES, CITY CLERK.**Common Council:****WARD 1.**

Joseph M. Ambrose, '78,
John O'Donnell,
James Kelly,
Richard J. Noonan.

WARD 2.

Albert W. Monty, '78,
Charles H. Richardson,
William K. Chase, res. Nov. 25,
Edwin A. Robinson,
Edward M. Tucke, '78, elect. Dec. 9.

WARD 3.

Edward Cawley, '78,
Henry P. Morris, '78,
William T. Benson,
Patrick A. Rogers.

WARD 4.

Robert G. Bartlett, '78,
Fred Woodies,
Charles F. Varnum,
Charles E. Farrington.

WARD 5.

Albert W. Burnham,
Ambrose L. Ready,
Joseph M. Wilson,
Edward B. Peirce, *President*.

WARD 6.

Eli W. Hoyt, '78,
Luke B. Taylor, '78,
Major A. Shaw,
Miles F. Brennan, '78.

DAVID CHASE, CLERK.

1880.**Mayor:**

FREDERICK T. GREENHALGE, '68, '69.

Aldermen:James D. Hartwell, '70, '75,
Atwill F. Wright, '63, '64,
Charles H. Richardson,
Edwin Lamson, '68, '69,Isaac F. Scripture, *'62, *'63,
Robert Wood,
Charles H. Coburn,
James C. Abbott.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council.**WARD 1.**James Kelly, '79,
Richard J. Noonan, '79,
Thomas J. Flynn,
Lawrence Cummings.**WARD 2.**Edwin A. Robinson, '79,
Wilbur L. Bates,
Samuel W. Foster,
Earl A. Thissell, '72, '73, '75, *Pres.***WARD 3.**Peter H. Donohoe,
William T. Benson, '79,
Patrick A. Rogers, '79,
Frank Wood.**WARD 4.**Fred Woodies, '79,
Charles F. Varnum, '79,
Charles E. Farrington, '79,
Charles D. Starbird, '76.**WARD 5.**Joseph M. Wilson, '79,
Ambrose L. Ready, '79,
Samuel Hosmer,
Edward B. Peirce, ‡ '79.**WARD 6.**Benjamin F. Freeman,
J. Tyler Stevens,
Charles C. Hutchinson,
Henry C. Cooper.

DAVID CHASE, CLERK.

1881.**Mayor:**

FREDERICK T. GREENHALGE, '68, '69, † '80.

Aldermen:Charles H. Richardson, * '80,
Isaac F. Scripture, * '62, * '63, * '80,
Robert Wood, * '80,
Ambrose L. Ready, '79, '80,Levi Sprague, '59, '64,
Julius A. Stiles,
Samuel D. Butterworth, '78,
Thomas R. Garity, '75.

SAMUEL A. McPHETRES, CITY CLERK.

Common Council:**WARD 1.**Thomas J. Flynn, '80,
Lawrence Cummings, '80,
Robert J. Thomas,
Jeremiah J. Hayes.**WARD 2.**Zachariah D. Hall,
James M. Howe, '57, '59,
Hubert M. Potter,
Moses Gibson.**WARD 3.**Frank Wood, '80,
Peter H. Donohoe, '80,
John E. Maguire,
D. Moody Prescott.**WARD 4.**Julius C. Johnson,
Stephen C. Davis,
Edward Garner,
William N. Osgood.**WARD 5.**Atkinson C. Varnum,
Samuel Hosmer, '80,
Samuel P. Marin, '74,
Albert W. Burnham, '79.**WARD 6.**Charles C. Hutchinson, '80, *Pres't.*,
Albert G. Thompson,
Thomas Nesmith, '78,
Lawrence J. Smith.

DAVID CHASE, CLERK.

1882.**Mayor.****GEORGE RUNELS, '62, * '64.****Aldermen:**

Thomas R. Garity, '75, * '81, *Chair'n.*
 * Charles W. Sleeper,
 George B. Smith,
 William A. Wright, '63, '66,
 David Whitaker,

D. Moody Prescott, '81,
 George S. Cushing, '77, '78,
 John F. Phillips,
 † John Welch.

‡ SAMUEL A. MCPHETRES, CITY CLERK.

§ DAVID W. O'BRIEN, " "

* Resigned, May 23; special election to fill vacancy, June 20.

† Elected June 20, to fill vacancy.

‡ Died Sept. 29, 1882.

§ Elected Oct. 4, 1882.

Common Council:**WARD 1.**

Robert J. Thomas, '81,
 Jeremiah J. Hayes, '81,
 Dennis J. Crowley,
 John A. Walsh.

WARD 2.

Zachariah D. Hall, '81,
 James M. Howe, '57, '59, '81,
 Moses Gibson, '81,
 James F. Puffer, Jr.

WARD 3.

Frank Wood, '80, '81,
 John E. Maguire, '81,
 John J. Mead,
 James Grady.

WARD 4.

Julius C. Johnson, '81,
 Stephen C. Davis, '81,
 Edward Garner,
 William N. Osgood, '81, *Pres.*

WARD 5.

Atkinson C. Varnum, '81,
 Albert W. Farnham, '79, '81,
 Artemas B. Woodworth,
 Horace B. Farnes.

WARD 6.

Albert G. Thompson, '81,
 Lawrence J. Smith, '81,
 Thaddeus S. Cobb,
 Miles J. Fletcher.

DAVID CHASE, CLERK.

1883.**Mayor:****JOHN J. DONOVAN.****Aldermen:**

John F. Phillips, * '82, *Chairman,*
 George B. Smith, * '82,
 Robert J. Thomas, '81, '82,
 David Whitaker, * '82.

D. Moody Prescott, '81, * '82.
 Geo. W. Fifield,
 John Welch, * '82,
 Miles J. Fletcher, '82.

DAVID W. O'BRIEN, CITY CLERK.

Common Council:**WARD 1.**

Dennis J. Crowley, '82,
 John J. Hogan,
 James H. Cahill,
 Daniel Murphy,

WARD 2.

Samuel Lawrence, '50,
 Joseph S. Brown, '72, '73, * '74, * '75,
 Albert W. Monty, '78, '79,
 John F. Thissell.

WARD 3.

James Grady, '82,
 John J. Mead, '82,
 Patrick J. Smith,
 Frank J. Donohue.

WARD 4.

James G. Elliott,
 Solomon K. Dexter,
 Alonzo L. Russell, '72,
 Geo. A. Bennett.

WARD 5.

Edward B. Peirce, † '79, '80, *Pres't*
 Artemas B. Woodworth, '82,
 John P. Mahoney,
 Geo. L. Ashworth.

WARD 6.

Lawrence J. Smith, '81, '82,
 Thaddeus S. Cobb, '82,
 J. Frank Page,
 Michael F. Clark.

DAVID CHASE, CLERK.

1884.**Mayor:**

JOHN J. DONOVAN, †'83.

Aldermen:

Robert J. Thomas, '81, '82, *'83, *Cl'n*,
 Miles J. Fletcher, '82, *'83,
 George W. Fifield, '83,
 Thaddeus S. Cobb, '82, '83,
 Edward B. Quinn,

Jeremiah Crowley, '70, '71, *'73,
 *'74, *'77, *'78,
 Peter I. Donohoe, '80, '81,
 Freeman B. Shedd.

DAVID W. O'BRIEN, CITY CLERK.

Common Council:**WARD 1.**

John J. Hogan, '83, *President*,
 James H. Cahill, '83,
 Daniel Murphy, '83,
 James H. Morrison.

WARD 2.

Joseph S. Brown, '72, '73, *'74, *'75, '83,
 Albert W. Monty, '78, '79, '83,
 Earl A. Thissell, '72, '73, '75, †'80,
 John R. Pike.

WARD 3.

Patrick J. Smith, '83,
 Peter J. Brady,
 Thomas J. Sparks,
 John Nolan.

WARD 4.

James G. Elliott, '83,
 Solomon K. Dexter, '83,
 Alonzo L. Russell, '72, '83,
 George A. Bennett, '83.

WARD 5.

Edward B. Peirce, †'79, '80, †'83,
 George L. Ashworth,
 Joseph M. Wilson, '79,
 James S. Hanson.

WARD 6.

J. Frank Page, '83,
 Michael F. Clark, '83,
 Alfred M. Chadwick,
 Marcellus H. Fletcher.

DAVID CHASE, CLERK.

1885.**Mayor.**

EDWARD J. NOYES.

Aldermen:

John F. Phillips, *'82, *'83, *Chairman*,
 John F. Howe, '57, '58, *'59,
 William D. Brown,
 George E. Stanley, *'76, *'77,

James D. Hartwell, '70, '75, *'80,
 George F. Penniman,
 Oliver E. Cushing,
 James Francis.

SAMUEL M. CHASE, CITY CLERK.

Common Council:**WARD 1.**

Patrick H. Plunkett,
 James H. Morrison, '84,
 Thomas J. Enright,
 Henry F. Keyes.

WARD 2.

George W. Brothers,
 Walter M. Sawyer,
 James R. Fulton,
 Francis D. Munn, Jr.

WARD 3.

Peter J. Brady, '84,
 Patrick J. Smith, '83, '84,
 John Nolan, '84,
 Thomas J. Sparks, '84.

WARD 4.

Arnold S. Welch,
 George A. Roper,
 William A. Lang,
 Frank W. Howe.

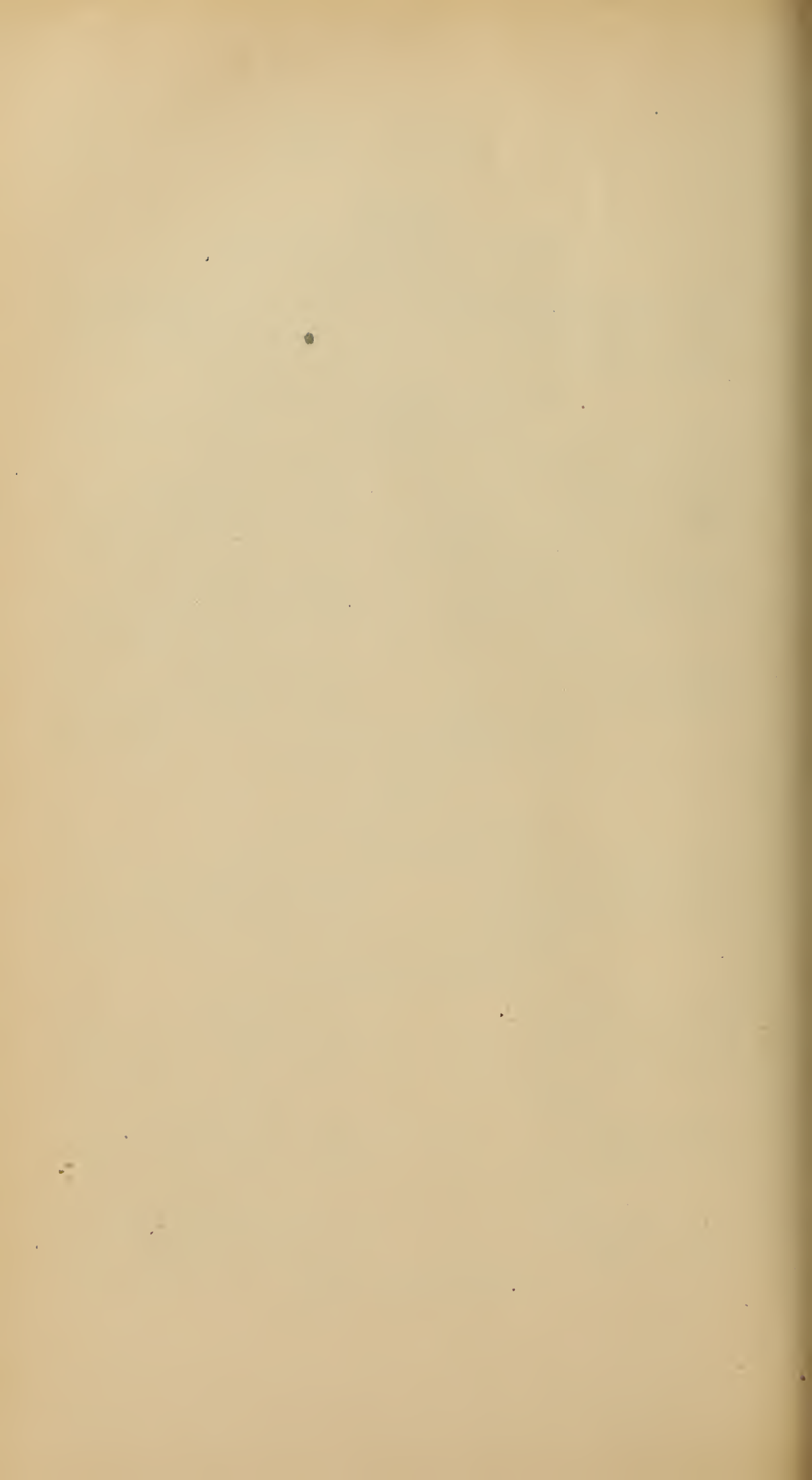
WARD 5.

Wilson W. Carey,
 James S. Hansen, '84,
 Henry L. Newhall,
 Elwyn W. Lovejoy.

WARD 6.

Alfred M. Chadwick, '84, *Pres't*,
 George R. Richardson,
 Luke B. Taylor, '78, '79,
 William H. White.

DAVID CHASE, CLERK.



ORDINANCES PASSED IN 1885.

CITY OF LOWELL.

In the year eighteen hundred and eighty-five.

AN ORDINANCE PROHIBITING THE SALE OR RENTAL OF CITY
PROPERTY BY CITY OFFICIALS.

Be it ordained, by the City Council of the City of Lowell, as follows:

No property of the city of Lowell shall be sold, let or rented, or disposed of in any way by a superintendent of any department, or by a member of any committee, or by any officer or official whatever, or except by and in pursuance of a vote of an appropriate committee or of the City Council.

And no property or material sold shall be delivered to the purchaser until the same has been paid for to the the City Treasurer, and a receipted bill for the payment of the same shall be shown.

In Common Council, May 26, 1885.

Passed to be ordained.

A. M. CHADWICK, President.

In Board of Aldermen, June 2, 1885.

Passed to be ordained.

JOHN F. PHILLIPS, Chairman.

Approved.

EDWARD J. NOYES, Mayor.

CITY OF LOWELL.

In the year eighteen hundred and eighty-five.

AN ORDINANCE TO REGULATE THE CONSTRUCTION, USE AND
REPAIRS OF WATER PIPES AND FIXTURES.

Be it ordained, by the City Council of the City of Lowell, as follows :

SECTION 1. All plumbing and piping work done in the construction of all water pipes and fixtures through which or by means of which water is furnished or distributed by the city, whether such pipes and fixtures belong to the city or not, shall be done by a plumber or piper licensed, as hereinafter provided, by the board of Aldermen.

SECTION 2. Licenses for the purpose named in Section 1 may be granted for the term of one year to any plumber or piper, or firm of plumbers or pipers, or firms employing plumbers or pipers, upon the payment of a license fee of one dollar (\$1). Every person or firm so licensed shall give bonds to the city in the sum of three hundred dollars (\$300), with sureties to be approved by the Board of Aldermen, conditioned to perform all work in a skillful and workmanlike manner, to observe all rules and regulations now made or hereafter made by the Water Board, and to save the city harmless from all claims and damages resulting from imperfect or unskillful work, or negligence by them, their agents or servants.

SECTION 3. The Water Board is hereby authorized to make such rules and regulations as to it shall seem fit, respecting plumbers and pipers and plumbing and piping work in connection with water pipes and fixtures, provided that such rules and regulations are submitted to and approved by the Board of Aldermen.

SECTION 4. No person shall perform any labor in the nature of plumbing or piping upon or in connection with any water pipes or fixtures through which or by means of which water is furnished or distributed by the City of Lowell, whether such pipes or fixtures are owned by the city or not, except under the authority of the license herein before named, on pain of forfeiting a sum of not less than five dollars (\$5), nor more than twenty dollars, (\$20) for each offence.

SECTION 5. No person shall remove nor interfere with any water

meter, unless specially authorized so to do by the Water Board, on pain of forfeiting a sum not less than five dollars (\$5), nor more than twenty dollars (\$20) for each offence.

SECTION 6. This act shall take effect from and after its passage.

In Common Council, July 14, 1885.

Passed to be ordained.

ALFRED M. CHADWICK, President.

In Board of Aldermen, July 21, 1885.

Passed to be ordained.

JOHN F. PHILLIPS, Chairman.

Approved July 22, 1885.

EDWARD J. NOYES, Mayor.

CITY OF LOWELL.

In the year eighteen hundred and eighty-five.

AN ORDINANCE CHANGING THE TITLE OF AN OFFICER OF THE
CITY.

Be it ordained, by the City Council of the City of Lowell, as follows :

That wherever the words "City Marshal" appear in the Revised Ordinances of the City of Lowell, the same be stricken out and the words "Chief of Police" inserted in place thereof.

In Common Council Dec. 31, 1885.

Passed to be ordained.

ALFRED M. CHADWICK, President.

In Board of Aldermen Dec. 31, 1885.

Passed to be ordained.

JOHN F. PHILLIPS, Chairman.

Approved Dec. 31, 1885.

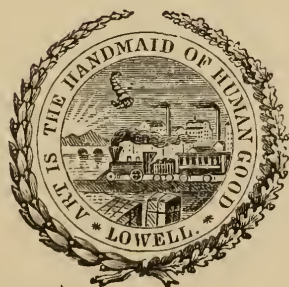
EDWARD J. NOYES, Mayor.

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SIXTIETH
ANNUAL REPORT
OF THE
SCHOOL COMMITTEE
OF LOWELL, MASS.,
TOGETHER WITH THE
TWENTY-SECOND ANNUAL REPORT
OF THE
SUPERINTENDENT OF PUBLIC SCHOOLS,
REPORTS ON DRAWING, EVENING SCHOOLS, MUSIC, MILITARY
INSTRUCTION, AND BOOKS AND SUPPLIES.
AND AN APPENDIX.

1885.



LOWELL, MASS.
MORNING MAIL PRINT, NO. 18 JACKSON STREET.
1886.

CITY OF LOWELL.

IN SCHOOL COMMITTEE,

Jan. 2, 1886.

THE Chairman of the Committee on Reports, REV. RANSOM A. GREENE, presented a report this day, which was unanimously adopted as the Report of the School Committee for 1885.

The Superintendent of Schools, and Chairmen of the Standing Committees on Evening Schools, on Penmanship and Drawing, on Music, on Military Instruction, and on Books and Supplies, at the same time presented reports, which were accepted and ordered to be printed with the Report of the School Committee.

GEORGE H. CONLEY, *Secretary.*

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1885.

EDWARD J. NOYES, Chairman.
 JOHN J. PICKMAN, Vice Chairman.
 GEO. II. CONLEY, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE.

EDWARD J. NOYES, Mayor	.	.	.	.	.	} <i>Ex-Officiis.</i>
ALFRED M. CHADWICK, Pres't Common Council,	.	.	.	.	.
Ward 1—JOHN A. SMITH *	.	.	.	.	Term Expires 1885	
STEPHEN J. JOHNSON	.	.	.	"	" 1886	
" 2—JOHN H. HARRINGTON	.	.	.	"	" 1885	
HERBERT P. JEFFERSON	.	.	.	"	" 1886	
" 3—JOHN J. CLUIN	.	.	.	"	" 1885	
DANIEL J. DONAHUE	.	.	.	"	" 1886	
" 4—FRED WOODIES	.	.	.	"	" 1885	
RANSOM A. GREENE	.	.	.	"	" 1886	
" 5—JOHN F. LENNON	.	.	.	"	" 1885	
ANDREW G. SWAPP	.	.	.	"	" 1886	
" 6—JOHN J. PICKMAN	.	.	.	"	" 1885	
CHARLES H. CONANT	.	.	.	"	" 1886	

* Resigned Oct. 26, 1885; Lawrence Cummings elected to fill the vacancy, Nov. 4, 1885.

STANDING COMMITTEES.

- ON ACCOUNTS — The Mayor, Messrs. Chadwick, Woodies, Smith, Donahue.
- ON SCHOOL HOUSES AND HYGIENE — Messrs. Lennon, Harrington, Johnson, Greene, Jefferson.
- ON TEACHERS — Messrs. Johnson, Woodies, Conant, Cluin, Pickman.
- ON REPORTS AND PRINTING — Messrs. Greene, Lennon, Swapp, Harrington, Donahue.
- ON BOOKS AND SUPPLIES — Messrs. Cluin, Pickman, Woodies, Conant, Smith, Greene.
- ON SALARIES — The Mayor, Messrs. Swapp, Jefferson, Lennon, Harrington.
- ON PENMANSHIP AND DRAWING — Messrs. Pickman, Johnson, Conant, Greene, Donahue.
- ON MUSIC — Messrs. Jefferson, Cluin, Smith, Swapp, Donahue.
- ON EVENING SCHOOLS — Messrs. Smith, Woodies, Conant, Cluin, Pickman.
- ON RULES AND REGULATIONS — Messrs. Harrington, Johnson, Swapp, Jefferson, Lennon.
- ON MILITARY INSTRUCTION — Messrs. Pickman, Swapp, Greene, Harrington, Donahue.
- ON HIGH SCHOOL — The Mayor, Messrs. Chadwick, Johnson, Smith, Cluin, Woodies, Pickman, Conant.
- ON REFORM SCHOOL — The Mayor, Messrs. Chadwick and Johnson.

ASSIGNMENT OF SCHOOLS.

THE MAYOR — High and Reform Schools.

PREST. CHADWICK — High, Reform, Mixed No. 1.

MR. JOHNSON — High, Reform, Primaries 44, 22, 41, 12, 23, 29, 38, 36.

MR. SMITH — High, Green, Primaries 1, 3, 40, 45, 10.

- MR. HARRINGTON—Primaries 37, 49, 48, 55, 60, 61, 9, 51, 75, 47,
26, 11, 43, 7, 21.
- MR. JEFFERSON—Varnum, Primaries, 46, 18, 53.
- MR. CLUIN—High, Butler, Primaries 20, 57, 68, 69, 72, 13.
- MR. DONAHUE—Colburn, Primaries 33, 56, 66, 59, 71, 64.
- MR. WOODIES—High, Highland, Primaries 17, 34, 50, 76, 31, 80.
- MR. GREENE—Reform, Edson, Primaries 24, 28, 77, 62, 67, 78, 79.
- MR. LENNON—Pawtucketville, Primaries 58, 81, 32, 73, Mixed 2.
- MR. SWAPP—Bartlett, Primaries 2, 65, 4, 54.
- MR. PICKMAN—High, Moody, Primaries 35, 52.
- MR. CONANT—High, Primaries 14, 25, 16, 5, 6, 15, 30, 19, 39,
27, 42.

GEO. H. CONLEY, Superintendent of Public Schools.

Office in City Government Building.

OFFICE HOURS—One hour after the forenoon session of the Schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

TRUANT COMMISSIONERS.

BICKFORD LANG. WM. H. BERMINGHAM. JOHN. F. WILLIAMS.

Office in City Government Building.

ORGANIZATION

OF THE

SCHOOL COMMITTEE, 1886.

JAMES C. ABBOTT, Mayor.
 DANIEL J. DONAHUE, Vice Chairman.
 GEO. H. CONLEY, Secretary.

MEMBERS OF THE SCHOOL COMMITTEE

JAMES C. ABBOTT, Mayor	.	.	.	.	.	} <i>Ex-Officiis.</i>
WALTER M. SAWYER, Pres't Common Council,	.	.	.	.	.
Ward 1—STEPHEN J. JOHNSON	.	.	.	.	Term Expires 1886	
LAWRENCE CUMMINGS	.	.	.	"	" 1887	
" 2—HERBERT P. JEFFERSON	.	.	.	"	" 1886	
WALTER H. LEIGHTON	.	.	.	"	" 1887	
" 3—DANIEL J. DONAHUE	.	.	.	"	" 1886	
JOHN J. CLUIN	.	.	.	"	" 1887	
" 4—RANSOM A. GREENE	.	.	.	"	" 1886	
GEORGE W. BICKNELL	.	.	.	"	" 1887	
" 5—ANDREW G. SWAPP	.	.	.	"	" 1886	
GEORGE W. BATCHELDER	.	.	.	"	" 1887	
" 6—CHARLES H. CONANT	.	.	.	"	" 1886	
WALTER M. LANCASTER	.	.	.	"	" 1887	

STANDING COMMITTEES.

- ON ACCOUNTS—The Mayor, Messrs. Sawyer, Batchelder, Conant, Cummings.
- ON SCHOOL HOUSES AND HYGIENE—Messrs. Batchelder, Greene, Jefferson, Swapp, Leighton.
- ON TEACHERS—Messrs. Johnson, Donahue, Cluin, Jefferson, Bicknell.
- ON REPORTS AND PRINTING—Messrs. Bicknell, Swapp, Cummings, Lancaster, Donahue.
- ON BOOKS AND SUPPLIES—Messrs. Cluin, Johnson, Greene, Donahue, Cummings, Swapp.
- ON SALARIES—The Mayor, Messrs. Conant, Leighton, Bicknell, Lancaster.
- ON PENMANSHIP AND DRAWING—Messrs. Greene, Johnson, Swapp, Batchelder, Conant.
- ON MUSIC—Messrs. Donahue, Jefferson, Johnson, Lancaster, Conant.
- ON EVENING SCHOOLS—Messrs. Cummings, Greene, Cluin, Swapp, Leighton.
- ON RULES AND REGULATIONS—Messrs. Conant, Batchelder, Bicknell, Jefferson, Lancaster.
- ON MILITARY INSTRUCTION—Messrs. Leighton, Cluin, Bicknell, Batchelder, Lancaster.
- ON REFORM SCHOOL—The Mayor, Messrs. Sawyer and Johnson.
- ON HIGH SCHOOL—The Mayor, Messrs. Sawyer, Johnson, Jefferson, Cluin, Greene, Swapp, Lancaster.

ASSIGNMENT OF SCHOOLS.

- THE MAYOR—High and Reform Schools.
- PREST. COMMON COUNCIL, SAWYER—High, Reform.
- MR. JOHNSON—High, Reform, Mann, Kirk Street, Central Street, Chapel Street.

MR. CUMMINGS—Green, Cabot Street, Rock Street, Cheever Street.

MR. JEFFERSON—High, Varnum.

MR. LEIGHTON—West Sixth Street, Tenth Street, Morrill, River Street.

MR. CLUIN—High, Butler, Agawam Street, Carter Street.

MR. DONAHUE—Colburn, Elliott Street, London Street.

MR. GREENE—High, Edson, Dover Street, Plain Street.

MR. BICKNELL—Highland, Franklin, Powell Street.

MR. SWAPP—High, Bartlett, School Street.

MR. BATCHELDER—Pawtucket, Mammoth, Varnum Ave., Middlesex Village, Howard Street and annex on Grand Street.

MR. CONANT—Moody, High Street, Pond Street.

MR. LANCASTER—High, Church Street, Lyon Street, Ames Street, Charles Street.

GEO. H. CONLEY, Superintendent of Public Schools.

Office in City Government Building.

OFFICE HOURS—One hour after the forenoon session of the Schools, and from 2 to 3 o'clock on Wednesday and Saturday afternoons.

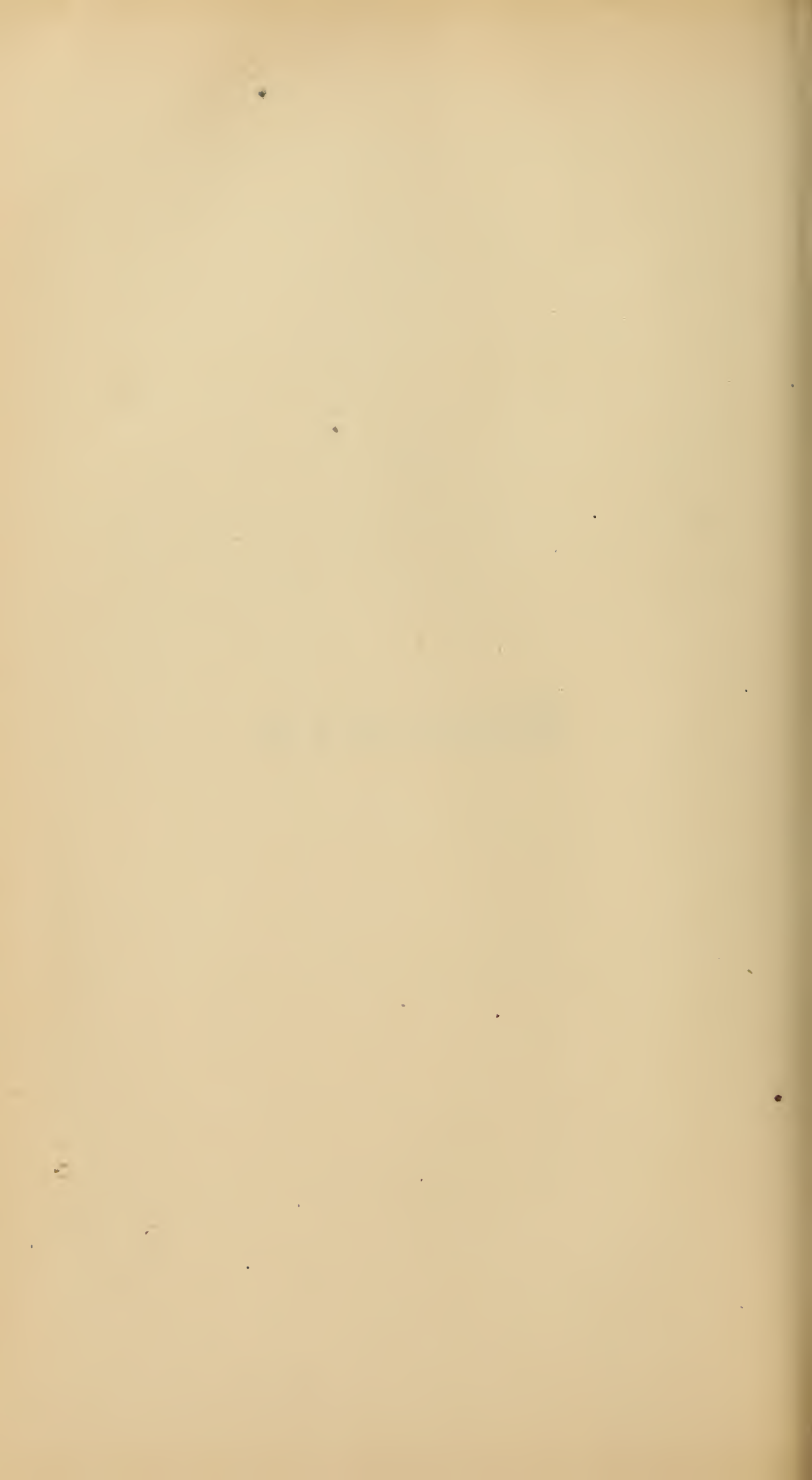
JOHN A. SMITH, Supervisor of Evening Schools.

TRUANT COMMISSIONERS.

BICKFORD LANG. WM. H. BERMINGHAM. JOHN F. WILLIAMS.

Office in City Government Building.

REPORTS.



REPORT OF THE SCHOOL COMMITTEE.

YOUR COMMITTEE ON REPORTS, in compliance with custom and the requirement of the Statutes of the Commonwealth, respectfully present the following.

We recognize the difficulty of making what may be worthy the name of a report without trenching upon ground that properly may be preëmpted by our Superintendent. It would seem that his report might cover the whole ground and answer the demands of the public statutes; but custom, at least, in Lowell, has deemed it otherwise, and we follow the custom.

In order that an intelligent School Committee Report may be had,—one that does justice to the subject,—a large experience on the part of the Committee would seem to be a desideratum. As long as the aspirants for position on the School Board are so many, and there is no remuneration other than what honor goes with the office, there will seldom be experience broad enough to secure such a report as the importance of the subject

demands. We say this without casting any reflections on past reports of the School Committee. We do not pretend to be critics in that broad field known as the educational world. We may be claiming too much in assuming to be educators in the humblest degree. We are conscious, however, that during the last half, or even quarter, of a century, the educational world has moved forward in many directions. The movement may have been retrograde sometimes, but on the whole it has been towards advanced positions, some of which are well occupied to-day. It is true that under the old theories and methods young men and women were educated sufficiently to make a success of life, where the aim and ambition were not lacking. It does not follow, however, that what secured desirable results years ago may be relied upon to secure equally good results now, for the world is not now what it was then. The young person of to-day has to face a different order of things from that which reigned in the past.

A half a century has almost completely transformed our industrial world, upon which human life to a large degree depends, and to which it must in certain important ways conform. Look over the list of inventions and discoveries that have been made, and trace out their effect and influence upon civiliza-

tion, and see how almost completely they have transformed it.

To say that the old ideas and methods of education are as good as the later is much like saying that the old stage-coach and the tallow candle are as good as the modern railway and the electric light. Even if men and women make no greater successes in life now than were made years ago, before there was any talk or thought of the new education, there is no room for argument in disapproval of modern and more expensive methods. To discover and apply ideas and methods that help men and women to success in this day of vastly changed conditions is much, always remembering that what secured success once, would, in many cases, utterly fail now.

The great question is, of course, how nearly do the present theoretical ideas and applied methods come to answering the real needs of our youth? Our limits will not admit of an extended discussion in this direction. The most we can say is that there is an approximation, at least, to the desired standard. We have noted with some care the discussions that have been going on of late in educational circles. We shall agree that an education means a training that enables one to reach the most desirable results, and then fits one to use and

enjoy them. It means the discipline that puts one into the largest and most effective relationships with the world about one. We are confident that the modern method of learning *things* before learning *names* or *words* is an improvement upon the method in use in our youth. We believe there is a reasonableness in the idea that the study of gestures and signs might well precede the study of either spoken or written language. Drawing in the simplest forms may be a useful step towards the acquirement of the art of Penmanship.

President Hill points out that "space and time relations are the earliest objects of distinctly conscious intellection," and he proceeds to show that "the earliest abstraction from the idea of form is that of number, and out of this idea is evolved the earliest of the truly abstract sciences, namely, arithmetic. But because this science is based upon an abstraction and not upon a direct perception, it should be made to follow, and not, as is usually the case, precede Geometry."

The question what should be taught in our public schools, and how far the taste and choice of the individual student should be allowed to influence the selection, is an important matter. In response to the last half of this question, it may be safely said that while in the college considerable liberty may be

granted the pupil, it is doubtful if this should be the rule in our public schools, even to any considerable extent in the High School. The pupil is of too immature an age to know what his needs or possibilities are.

Dr. James Martineau says that in his youth education was thought of use more to correct the weak side of one's nature than to develop its strong side, and so he gave double time to the studies he disliked. This he admits to have been too ascetic a rule, and yet preferable on the whole to the emasculate extreme of doing nothing but what one likes to do, so prevalent to-day.

It is evident that this ascetic rule did not spoil Dr. Martineau, and he says: "To choose none but studies agreeable and attractive, from the start, is what young people are more and more disposed to insist upon. Virtually the student comes to the teacher with a bill of rights in his hands, and says: 'Mind! you must not be dull, or I will go to sleep. You must attract me, or I shall not get on an inch. You must rivet my attention, or my thoughts will wander.' 'Very well, then, if such be your mood, go to sleep, do not get on an inch, and let your attention wander. I warn you this enervated mood is the canker of manly thought and action.'"

It is a question if we are not to some extent fostering this spirit in our youth at the present time. As to what *shall* be studied in our public schools there are many wise answers, from as many wise heads; but, unfortunately, they are not in agreement.

In the upper grades of our schools there is a tendency to introduce more and more of the purely English and scientific branches in place of the classics, which seem to be gradually losing their hold. We regard this as a movement in the right direction. If one is to have all the opportunities of an education let one spend one's time in learning dead languages, if desired; for the larger part of our youth, however, one would advise a different course.

The Report of the Committee for 1883 contains earnest words and valuable hints in relation to the matter now uppermost in the minds of most educators and called "Industrial Education"; by some simply "Manual Training." The subject is receiving more or less attention all over the civilized world. But enough, however, has been done in this country by way of practical application, so that we can say it has passed the experimental stages. The reports from cities where the experiment has been tried are favorable to its adoption. St. Louis, Philadelphia,

Chicago, and other cities and towns have Manual Training Schools. Baltimore has one which forms an integral part of the public school system, in which the pupils' time is equally divided between mental and manual exercises. Boston has made some trial of the project, though not to a great degree. There are reasons to believe that the experiment will be pushed with greater earnestness in that city. The Superintendent of Public Schools in Gloucester, where a fund was left to carry on such a school for a certain period, says: "This attempt to combine intellectual and manual training will tend to dignify manual labor in the opinion of many young people, just at that critical period when so many are now wasting opportunities for practical education in a vain endeavor to accomplish purely intellectual work, for which they are totally unfitted."

When we consider that by far the larger part of the youth of our land are to live by some kind of manual labor, wrought with their own hands, we see something of the importance of this question. The Superintendent of Schools in the city of Cleveland says: "Of one hundred and eight pupils (boys and girls) entering the Primary School, sixty complete the Primary, twenty finish the Grammar, four are found in the second class of the High, and one graduates from the High School." In St. Louis the

average age at which pupils withdraw from the public schools is $13\frac{1}{2}$ years. In Chicago it is said about $1\frac{1}{8}$ per cent. of the boys in the public schools are in the High Schools, and that if every boy in the Chicago public schools should extend his schooling through a High School, the four classes of the High Schools would contain nine thousand boys, whereas, in point of fact, they have about four hundred.

Not only throughout the western part of our country, but even here, in the East, where we boast of our educational ideas and advantages, there is a widely accepted opinion that the great mass of our youth need but little education in the schools beyond the Primary, or at most, the Grammar grades. The masses of our children are expected to gain a future livelihood for themselves and those that may become dependent upon them, through some connection with industrial pursuits that require far more manual than mental training on the part of the workman.

And yet industrial education, it is well to remember, has not for its aim the drawing of a still larger proportion of our youth towards industrial pursuits and callings. Its object is to make men more efficient in those pursuits, and at the same time more manly every way. It contemplates not so much the making of more mechanics as making better

mechanics, and then it looks to the further advancement of the whole man, especially the mental and moral man.

There is no question, we believe, but training, discipline, education, in the methods and processes that underlie the industrial pursuits of our age, is a great unfold of the intellectual and moral man. Says Dr. Woodward, the accomplished director of the St. Louis Manual Training School: "The object of the introduction of manual training is not to make mechanics. We teach banking, not because we expect our pupils to become bankers; and we teach drawing, not because we expect to train architects, or artists, or engineers; and we teach the use of tools, the properties of materials, and the methods of the arts, not because we expect our boys to become artisans; we teach them the United States Constitution and some of the acts of Congress, not because we expect them all to become Congressmen. But we do expect that our boys will at least have something to do with bankers and architects, and artists and artisans, and we expect all to become good citizens. Our great object is educational; other objects are secondary. That industrial results will surely follow we have not the least doubt, but they will take care of themselves. Col. Jacobson is quoted as saying that 'manual training means, not fewer, but more ladies

and gentlemen to the acre.' Superintendent Seaver says: 'Manual training is essential to the right and full development of the human mind, and therefore no less beneficial to those who are not going to become artisans than to those who are. The workshop method of instruction is of great educational value, for it brings the learner face to face with the facts of nature. His mind increases in knowledge by direct personal experience with forms of matter and manifestations of force. No mere words intervene. The manual exercises of the shop train mental power rather than load the memory; they fill the mind with the solid merchandise of knowledge, and not with its empty packing cases.'

With all the arguments and testimony in favor of manual training as a part of a popular education, could the city of Lowell do better than make the experiment, after some reduction of the subjects now required to be taught in our public schools? Just how the trial should or can be made we are not ready or competent to say. We have a large and commodious school building on Worthen Street, at present unoccupied except for evening school purposes, which might be utilized for the purposes of a manual training school. It would seem a better way to conduct the experiment in a building by itself than to introduce the shop into the school-

room proper. That it would cost something there is no doubt. Education is never cheap, and never will be. In some senses it is something the cost of which increases from year to year. In that respect, however, it is like everything else. Life itself grows to be a more costly affair as civilization improves, and if what we call education is that, and not a name, it pays in the end far more than it costs.

It may be said that we have made a beginning already in this branch of education. Early in the year the Committee saw fit to consider the advisability of employing a special teacher in Drawing. As a result, the services of Mr. Bailey were secured, and he is proving an able, efficient and satisfactory teacher, and we predict great good to the schools of Lowell if the School Boards of the future are wise enough to give this branch of education all the sympathy and help it deserves. We are convinced it is a branch of education that deserves careful consideration, that it is not what may be called a mere accomplishment, more ornamental than useful when acquired, but a most important factor coming into close relations with the industrial pursuits of modern society.

Early in the year a committee was appointed from this Board to investigate and report as to the advisability of establishing a Training School for Teachers.

The investigations of the committee extended as far as the city of Lawrence, where there is such a school in successful operation. It is so conducted as to serve the double purpose of a public school for children and a training school for teachers, and the latter aim is well accomplished, with but a trifling expense to the city. According to the testimony of Superintendent Brewster, this school forms one of the most excellent features of the public school system of that city. In the Report of the Superintendent, for 1884, he says: "In the last five years our Training School has supplied forty-five teachers, an average of nine each year, of whom forty are now in our service. During the same time we have obtained thirty-five teachers from other sources, of whom twenty are now teaching in our schools. Of those from the Training School, only one in nine has left; while of those from elsewhere the proportion is three in seven."

In the element of permanence and in qualifications generally, the teachers from the Training School are considered superior in the Lawrence schools. The agent of the State Board of Education, Mr. George A. Walton, says of the Lawrence schools: "The Training School is a very efficient means of giving success to the schools. The one essential condition of good schools is good teachers. This condition is met in Lawrence."

It must occur to everyone having anything to do with placing teachers in our schools, that the establishment of a Training School would be greatly to the advantage of our schools. It is a matter upon which great emphasis should be laid. We hope it will not be allowed to rest where it is, but that the incoming School Board will institute more active measures towards the establishment of a Training School for Teachers.

The needs of the High School must not be overlooked by the School Board. We doubt if there are many better High Schools in the state than our own. During the year four teachers have been elected to positions in the school, two of whom are in addition to the original number employed. The efficiency and success manifested and achieved by these teachers attest the wisdom of the Board in placing them in the responsible positions they occupy. Still we need more teachers, which need cannot well be supplied until we have more room for them. Additional accommodations of this kind must come in the near future. We would suggest that the conversion of the Green School building into a High School is an idea worth considering. There is plenty of land for enlargement, and the present High School building would answer the purposes of the Grammar School now taught in the Green School.

During the year, in accordance with the suggestion of the Superintendent, semi-annual promotions from the Primary to the Grammar Schools have been instituted. A suggestion came also from the same source that promotions be made in like manner from the Grammar to the High School. A committee appointed to consider and report, believed in the theory, but found it impossible or impracticable until the High School is supplied with more room and more teachers.

There has been an effort on the Superintendent's part, seconded by the Board, to bring about a greater centralization of the Primary Schools. Principals chosen from the teachers have been appointed over the various groups of schools, who are in a measure responsible for the schools. This measure has worked well, and promises good results. We believe that this idea of centralization can be carried out in the future by the erection of school buildings of many rooms. The schools are too much scattered, and thus isolated in a measure. We believe better results will be secured by the greatest possible centralization or grouping together of the schools.

A partial or limited supervision of the Primary Schools by the Grammar School masters during the last fifteen months has worked well. The measure is a good one, and we heartily recommend a continuance of the plan.

On the whole, we believe that the schools of Lowell are in good condition. Many of them are excellent schools. A year of good work has been done. An active, earnest, conscientious, hard-working Superintendent, whose whole heart is in his work, has been alive to all methods and measures, whether old or new, that have promised to increase the efficiency of the public school system in our city. Efficient leadership, good teachers, and a generous public are the essentials to the success we need in the education of our youth. It may be said of the last-named essential, that while the people are sometimes slow to see the needs in this direction, yet there is no more popular cause and no better supported cause on the face of the earth to-day than the cause of education, and so long as the world sees and knows that "knowledge is power," the public schools of our land will receive the endorsement and the generous support of the people.

Respectfully submitted.

RANSOM A. GREENE.

DANIEL J. DONAHUE.

ANDREW G. SWAPP.

REPORT ON EVENING SCHOOLS.

To the School Committee of Lowell:—

GENTLEMEN—I herewith submit the Report on Evening Schools for the term of 1884-85.

The schools were opened on November 6, 1884, and continued until February 27, 1885, when they were closed, after a session of sixteen weeks.

The attendance during the term was the largest in the history of this branch of our school work.

The total number registered during that time was 2139, and the average number belonging being 1234.

A comparison of the results for the past two years, with the ones preceding, will show the wisdom of the change to regular school rooms.

While the attendance during the term was much larger than in former years, yet the problem of securing the regular attendance of pupils and of infusing them with that spirit of interest which is so essential to the success of a well regulated system has yet to be solved. This is a subject for careful consideration on the part of the Committee and those interested in evening school instruction.

When the subject of removal of these schools to the rooms of the day schools was under consideration, it was thought by many that the conduct of those who would attend might be such as to annoy and disturb the work of the day pupils. We are happy to report, that, with one exception, no serious trouble or inconvenience has been met with in any of the school buildings so occupied.

HIGH SCHOOL.

The Evening High School shows a very noticeable improvement this term over last, both in increased membership and in the quality of the material of which the school is composed.

The attendance is larger, both in numbers and regularity, than last year. The average membership for the months of October and November was 197, with an average attendance of nearly 86 per cent. This record is particularly gratifying when we consider that the school has been in session five evenings a week this term, and only four last term.

The studies included in the present course are the following: Latin, English Literature, Physiology, French, Book-keeping, Penmanship, History, Arithmetic, Grammar and Rhetoric. The work so far accomplished this term has been most satisfactory in its character. Special mention should be made of the departments of Book-keeping and Penmanship. It is safe to say there is no better instruction given in these branches in any business college in the state, than that given in the Lowell Evening High School. The class in French is doing most excellent work, under the direction of Mr. Bourbonniere.

The corps of teachers is not to be surpassed by any school in the city. There are nine instructors. Of this number six are college graduates, and the other three include two professors of the branches in which they instruct, and one of the most competent of the day school teachers (Mr. F. F. Coburn), who has charge of the class in Chemistry.

An increased public interest may be observed from the large number of visits recorded. During the months of October, November and December there have been 48 visits made by Sub-Committees, 144 by the Supervisor, and 328 visits by others.

The general progress of the school is most satisfactory, and it is evidently a growing institution.

The management is under charge of Mr. James D. Horne, to whose energy and talent much of the success which has attended this school is due.

ELEMENTARY SCHOOLS.

Good work is being done in most of the schools, the scholars, as a rule, are studious, and the deportment much better than formerly.

The attendance is necessarily irregular to some extent, many of the pupils being often called upon to work extra hours for their employers, thus necessitating their absence from school.

The adults, as a class, are not so far advanced in the studies taught as the younger pupils are, and, in consequence, the work of the teacher is very much increased. To remedy this to some extent

I would recommend that at the beginning of next term, the schools be divided into senior and junior grades. In the senior grade, only those who are 18 years and over should be admitted, and, in the junior grade, pupils from 12 to 18 years of age. By this arrangement the younger scholars can be classified to better advantage, and the teacher can do more satisfactory work with her class. An optional course of studies could be arranged for the seniors, which would include Reading, Writing, Spelling (with definitions), Arithmetic and Composition. I am of the opinion, that, by this method, studies can be taught better and more profitably both to teacher and scholars.

In my last report I stated that the key to management of Evening Schools was live and energetic teachers; the same holds good this year. If none but the very best teachers were selected for this class of scholars, better results would be accomplished. As a rule, the teacher makes the school. The young men and women who attend, working as they do during the day, quickly learn to appreciate a teacher who is interested in their welfare, and consequently will give the greatest attention to her teaching and are the most constant in attendance. A teacher who is careless or indifferent, fails to interest them in their studies, they soon become dissatisfied, and, after a few weeks, sever their connection with the school.

In the efforts made to raise the standard of the schools, I have received the cordial support of the teachers, who (with few exceptions) have followed the instructions given them at the beginning of the term. I hereby acknowledge the valuable aid and suggestions given by Superintendent Conley during the year. I return thanks to members of the Board and to the Agents of the several corporations for the kindly interest manifested by them in the Evening Schools of our city.

The following summary gives the attendance and cost of Evening Schools for the term of 1884-85.

SUMMARY.

SCHOOLS.	Number of teachers at opening of term.	Number of teachers at close of term.	Evenings taught.	Whole number of pupils on time-book during the term.			Average number of pupils belonging to schools.			Average attendance.			Per cent. of attendance.
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
High . .	6	6	63	148	49	197	110	36	146	89	29	118	81
Bartlett .	9	7	66	324	161	485	167	92	259	98	54	152	66
Butler . .	8	8	65	238	93	331	113	51	164	81	41	122	74
Colburn .	7	5	65	247	0	247	133	0	133	76	0	76	58
Franklin .	6	4	66	65	60	125	19	20	39	16	12	28	72
Green . .	8	7	65	256	0	256	173	0	173	131	0	131	76
Mann . .	6	6	63	0	158	158	0	88	88	0	71	71	81
Moody . .	4	3	65	0	163	163	0	87	87	0	51	51	59
Varnum .	8	5	65	125	52	177	109	36	145	68	24	92	55
				1403	736	2139	824	410	1234	559	282	841	

COST OF EVENING SCHOOLS FOR THE TERM.

Teachers	\$5,919 65
Janitors	995 00
Lighting	738 80
Incidentals	411 65
Total	\$8,065 10

Respectfully submitted.

JOHN A. SMITH, *Supervisor.*

REPORT ON PENMANSHIP AND DRAWING.

To the School Committee:—

IN the year 1870, the Legislature of Massachusetts enacted a law requiring drawing to be taught in the public schools of the State. In the spring of 1872, the Free Evening Drawing School was established in this city, and despite the many unfavorable conditions usually attendant upon a new departure, quite early in its history was foreshadowed a future of usefulness, and it quickly won the confidence of the Board and the public. A few years later the Centennial Exposition held at Philadelphia gave an impetus to artistic studies in general, and more especially to the study of drawing in its relation to the industrial arts and manufactures, requiring the employment of artistic skill in ornamentation or design, that in no small degree contributed to mould public opinion to favor the liberal encouragement of drawing in the public schools of the State. The Evening Drawing School in our city shared in this revival spirit, nor has it manifestly abated with the passing years, if we may judge of the measure of interest existing, by the growth of the school in point of attendance and by the Annual Exhibition of the work of the pupils.

The excellent results attained are largely due to the corps of efficient instructors at the school, many of whom have been connected with it from its origin, and all of whom are singularly well fitted for their respective positions.

The widely spread interest in the subject of manual training, and the growing belief shared by many of the most practical educators, that in the near future such training will be made an essential feature of school work, tend to give to the study of drawing a special importance at this time, it being considered as closely allied to industrial training and a fitting preparatory for it.

There is no better field for the industrial experiment than here in Lowell, where the appliances, teaching and illustrative facilities

conjointly afford superior opportunities for a trial under the most favorable conditions.

In this connection it is therefore recommended, for the early consideration of our successors, that the Worthen Street School building be dedicated and set apart for the use of the Evening Drawing School and for industrial training.

The transfer of the separated classes to one building resulting from the proposed change, it is believed, would increase the attendance and enhance the working capacity of the various departments of the school.

The present overcrowded condition of the Modeling Classes at the Green School would also be avoided by such transfer.

There are no more important departments of the Drawing School than the Mechanical and Architectural Classes. The instruction is of the most practical kind. It is recommended that a purchase of supplies and models be made for the use of these classes.

A visit to the school will indicate the particular needs, and the manifest propriety of speedily supplying them.

For several years prior to the present year, Penmanship and Drawing were taught in the public schools of this city by one instructor, known as the Teacher of Penmanship and Drawing. In view of the importance of these studies, and the general belief that sufficient time and care could not be bestowed upon them by one master, however efficient, with a large number of schools widely separated to be visited by him at frequent intervals, it was this year voted by the Board to divide the work, and in the month of September last Mr. Henry T. Bailey was elected Teacher of Drawing at a salary of one thousand dollars per annum. Mr. Bailey entered upon the discharge of his duties with enthusiasm, and has in a marked degree succeeded in awakening and retaining the interest of teachers and scholars in the different grades. He is original and effective in his methods of teaching and supervising, and excellent results may confidently be expected from a systematic and thorough course of instruction.

It should also be stated that marked progress has been made in Penmanship, especially in the lower grades, during the year, and Mr. Graves, the present teacher of Penmanship, has now a better opportunity to show good results than when obliged to render double service, as formerly.

The following summary of attendance and expenses is herewith submitted: —

SUMMARY OF ATTENDANCE AND EXPENSES.

TERM OF 1884-85.

	Beginning of Term.	End of Term
Free Hand Classes	243	143
Modeling "	124	68
Architectural "	78	46
Machine "	96	45
	<hr/> 541	<hr/> 302

BEGINNING OF THE TERM, 1885-86.

Free Hand Classes	209
Modeling "	98
Architectural "	68
Machine "	77
	<hr/> 452

SUMMARY OF EXPENSES FOR THE TERM, 1884-'85.

Salaries of Teachers	\$3,493 50
Advertising and Printing	30 40
Gas	326 95
Janitors	216 25
Miscellaneous	167 11
	<hr/> \$4,234 21

THOMAS M. GRAVES, *Teacher of Penmanship.*HENRY T. BAILEY, *Instructor of Drawing.*

In conclusion, the Committee gratefully acknowledge the earnest coöperation and liberal financial support afforded by the Board during the year.

Respectfully submitted.

JOHN J. PICKMAN.

STEPHEN J. JOHNSON.

RANSOM A. GREENE.

DANIEL J. DONAHUE.

CHARLES H. CONANT.

REPORT OF COMMITTEE ON MUSIC.

To the School Committee:—

It has been the rule in former years to elect a Supervisor of Music who visited the different schools as often as possible, remained a short time with the scholars, and heard a recitation, if it can be so called, in music. The Committee of the present year, after giving the subject careful consideration, reached the conclusion that such a method of instruction was unsatisfactory, and have dispensed with the services of the Supervisor during the last school term. Since, however, music still remained one of the required studies, the teachers of the several schools have themselves had charge of and given instruction in this branch. We think that quite as much has been accomplished under this system as formerly.

Still although teachers are required to pass an examination in music, it is evident that they are not so well qualified in this branch as is necessary to enable them to do it justice. Under such circumstances we think that it is well worth our careful consideration, whether it would not be advisable to adopt some plan by which a competent person could be employed to give instruction to the regular teachers, at stated periods, in the fundamental principles of this study. It would also be well, if this plan were adopted, to arrange for bringing the scholars in the same grade of the several schools together from time to time for examination.

With the present number of studies, it is in the minds of many a question of doubt if full justice can be done to all. Whatever, however, the facts may be in regard to those which require a considerable exercise of memory, reflection and reasoning, it would seem that the elementary principles of music might be acquired by the younger scholars in the early stages of their school life, when the requirements in other studies are not great; and beside, children when quite young can attain a knowledge of music better, we think, than when they are more advanced in years. At what time in their

school life, if at all, this branch should cease to be required, is a question which will deserve consideration after the plan we have suggested has been tried.

HERBERT P. JEFFERSON.

DANIEL J. DONAHUE.

LAWRENCE CUMMINGS.

JOHN J. CLUIN.

ANDREW G. SWAPP.

REPORT ON MILITARY INSTRUCTION.

THE COMMITTEE ON MILITARY INSTRUCTION, in accordance with the requirements of the rules of the Board, make the following report:

It is unnecessary to dwell in detail upon the benefits resulting to the pupil as an individual, or to the school, collectively, from the retention of Military Drill as a required feature of High School instruction. It is manifest to all, and has been enlarged upon elsewhere. It is rather the province of this Committee to foster the *esprit de corps* that now distinguishes the battalion, to maintain discipline, and prescribe rules for the orderly control of the organization.

The battalion was never in better condition than at present, as regards discipline, attendance of the members at drill, and care of equipments. This is largely due to the growing belief of both parents and pupils, that the drill is a most healthful exercise and should be sustained as such.

It is believed that the present method of selecting officers of the battalion should be continued in the future, viz.: Election by the Committee, with the approval of the male instructors of the High School. There should not be the faintest suggestion of favoritism or prejudice in the selection, and thus far it has been avoided by the untrammelled choice of the teachers, subject to revision and approval by the Committee.

It is recommended that the battalion be allowed a field day for public parade and review. At present but one public appearance is made in each year, — upon the occasion of the annual competitive drill, in a public hall, — and the additional day or half-day if granted, would be of advantage in every way.

Respectfully submitted.

JOHN J. PICKMAN.
RANSOM A. GREENE.
DANIEL J. DONAHUE.
ANDREW G. SWAPP.
JOHN H. HARRINGTON.

REPORT ON BOOKS AND SUPPLIES.

To the School Committee:—

HITHERTO it has not been customary for the Committee on Books and Supplies to submit an annual report to the Board in this form.

But a Committee having within their control the expenditure of large sums of money for supplies, and as upon their judgment to a large extent depends the expensive outlay attending a change in text-books, it seems but proper that this Committee having such weighty responsibilities, should render to the Board a complete and accurate account of the trust reposed in them. Accordingly, with your permission, we submit a report of the expenditures of the past year, with a statement of the changes and recommendations made during the year, and a resume of the cost of free text-books since the introduction of the system in 1881.

EXPENDITURES, 1885.

Text Books	\$5,402 79
Supplementary Readers	188 88
Maps, Charts, Pens, Ink, Slates, Paper, etc.	1,904 32
Rifles for High School Battalion	353 75
Books for High School Library	85 33
	<hr/>
	\$7,935 07

The Committee have during the past year made the following recommendations, which have been adopted by the Board:

Wentworth's Geometry substituted for Bradbury's.

Arnold's English Literature for White's English Literature.

Curnow's English History for Berard's English History, in the High School.

Swinton's Geographies for Guyot's, in the Grammar Schools.

Blaisdell's Physiology was also adopted, to conform to the State law.

Your Committee have also, with the approval of the Board, caused to be made a gradual change in the Fourth Readers of the Franklin Series, substituting the new edition of that series for the old.

With regard to supplementary reading for the different schools, a very small quantity was purchased, though had your Committee acted according to their inclinations, a generous sum would have been expended in this direction, as they are assured of the good resulting from a plentiful supply of choice and suitable reading matter for all the different classes. But owing to the small appropriation made by the City Council, and the general concern for economy, it was deemed best to refrain from expenditure in this particular, though the want was acknowledged and apparent in many schools.

The Committee also recommended a change in the Grammars in use in the Grammar schools, but the recommendation was not adopted by the full Board. We would recommend an early consideration of this matter, as it is evident to all that a change of some kind should be made. The Grammar masters as well as the Committee have been divided in opinion as to how this change should be made, while all have been unanimous as to the adoption of Paterson's Grammar. Whether it should replace the Knox-Whitney or the Greene, has been a matter of opinion. Many object to Greene's Grammar as being too difficult, and others to the Knox-Whitney as being incomplete, and to the general arrangement of the work.

One of the Principals says:

"I believe this book (Knox-Whitney) to be the chief burden of our course of study; the great amount of time and labor employed in studying and teaching it, producing but indifferent results."

COST OF EXCHANGE IN BOOKS, 1885.

Berard's English History	\$ 112 00
Arnold's English Literature	60 00
Wentworth's Geometry	52 10
Swinton's Geography	1,300 95
Fourth Reader	584 19
Blaisdell's Physiology (Introduced	285 00
	<hr/>
	\$2,394 24

Since the introduction of the free text-book system in Lowell, the cost per capita, based on the average number belonging, has been

as follows: 1881, two dollars and sixteen cents; 1882, sixty-three cents; 1883, seventy cents; 1884, one dollar and seven cents, and 1885, seventy-eight cents.

The entire cost since the introduction of the system has been one dollar and seven cents per pupil; compared with the cost of books furnished by the city to indigent children in 1880, which was thirty-four cents per capita, would make the real cost but seventy-three cents per capita. Such a showing must commend itself to the advocates of the free text-book system, and the wisdom and timeliness of the School Committee of 1881 is manifest in that the State Legislature during its session of last year, enacted that in every town and city the same system shall prevail.

In conclusion, we tender our acknowledgments to the Superintendent, for many valuable suggestions, and to the Board, for the kind consideration given to the recommendations of the Committee.

Respectfully submitted.

JOHN J. CLUIN.

JOHN J. PICKMAN.

RANSOM A. GREENE.

CHARLES H. CONANT.

LAWRENCE CUMMINGS.

REPORT OF THE SUPERINTENDENT.

Gentlemen of the School Committee:—

IN compliance with the requirements of your Rules, I respectfully present the following report for 1885.

SUMMARY OF STATISTICS.

Value of real and personal property	\$51,308,325
Population	64,051
Number of polls	15,747
Decrease for the year	714
Number of children in the city between five and fifteen years of age.	
May 1, 1885	10,970
Ward One, 1,344; Ward Two, 1,621; Ward Three, 2,728; Ward Four, 1,760; Ward Five, 2,121; Ward Six, 1,396.	
Decrease for the year	198
Number of public schools	40
Number of public school buildings	45
One High, nine Grammar, two Mixed, twenty-eight Primaries.	
Number of regular teachers employed in them	178
High School: two males, eleven females	13
Grammar Schools: nine males, sixty-eight females	77
Mixed Schools: two females	2
Primary Schools: eighty-three regular teachers	83
One teacher of penmanship	1
One teacher of drawing	1
One teacher of military tactics	1
Increase for the year	8
Average number belonging to all the day schools	6,954
High, 406; Grammar, 2,868; Mixed, 52; Primary, 3,628.	
Average attendance in all the schools	6,320
High, 387; Grammar, 2,632; Mixed, 45; Primary, 3,256.	
Average number belonging to each teacher	39.7
High, 31.3; Grammar, 37.2; Mixed, 26; Primary, 43.7.	
Average number, belonging to each room:—	
High, 40.6; Grammar, 42.2; Primary, 43.7; Mixed, 26.	

Average per cent. of attendance	90.8
High, 95; Grammar, 91.8; Mixed, 87; Primary, 89.6.	
Average cost of each scholar, for tuition only, based on the average number belonging	\$16.44
High, \$24.59; Grammar, \$18.77; Mixed, \$22.00; Primary, \$13.00.	

RECEIPTS AND EXPENDITURES.

RECEIPTS.

Balance undrawn Jan. 1, 1885	\$ 2,856 12
Appropriated and assessed	150,000 00
Received from reserved fund	6,494 96
Received from other sources	1,632 22
Total amount standing to the credit of Schools	<u>\$160,983 30</u>

EXPENDITURES.

Paid to teachers of day schools:

High School	\$ 9,979 25
Grammar Schools—Bartlett	\$6,409 61
Butler	6,070 00
Colburn	5,464 75
Edson	7,592 60
Green	6,325 63
Highland	6,704 64
Moody	5,715 00
Pawtucket	3,179 50
Varnum	6,370 00
	<u>53,831 73</u>
Mixed Schools	1,144 25
Primary Schools	47,141 52
Teacher of penmanship	1,120 00
Teacher of drawing	400 00
Teacher of vocal music	720 00

Total paid for instruction in day schools, exclusive of instruction in military tactics in High School \$114,336 75

Paid for Evening Schools:

To supervisor \$120 00

Elementary Schools:

To teachers	\$7,514 75
Janitors	1,267 75
Lighting	883 96
Incidentals	614 30
	<u>10,280 76</u>

Evening Drawing Schools:

To teachers	\$4,141 25
Janitors	251 25

Amounts carried forward \$4,392 50 \$10,400 76 \$114,336 75

<i>Amounts brought forward</i>	\$4,392 50	\$10,400 76	\$114,336 75
To Lighting	278 41		
Incidentals	626 16		
		5,297 07	15,697 83
Fuel			6,948 81
Water			1,453 50
General repairs, material, labor, etc.			3,165 82
Bills of Superintendent of Public Buildings for lumber, making and re- pairing furniture, and labor generally			485 98
Printing and advertising			917 63
Printing, binding, and distributing 6000 School Reports			581 90
Free text-books			5,402 79
Incidentals on account of same			65 91
Supplementary Readers			188 88
Books, charts, etc.			1,904 32
Mr. Lang, for use of team to deliver books, etc.			100 00
Books for High School Library			85 33
Rifles for High School Battalion			353 75
Military instruction			175 00
Taking of census of school children			332 10
Instruction of children in Chelmsford and Dracut			51 10
Rent			280 00
Drawing School exhibition			220 71
Salary of Superintendent			2,500 00
Salary of Truant Officers			2,250 00
Miscellaneous			3,485 19
Total expenditures			<u>\$160,983 30</u>

SCHOOL HOUSES.

Balance undrawn Jan. 1, 1885	\$ 723 59
Appropriated and assessed	25,000 00
Received from other sources	20,421 88
	<u>\$46,145 47</u>

EXPENDITURES.

Agawam Street School	\$ 2,455 29
Ames Street School	2,494 55
Central Street School	6,283 60
London Street School	1,199 37
Tenth Street School	2,369 71
Janitors	14,179 53
General repairs	8,738 44
Total expenditures	<u>\$34,720 49</u>
Balance undrawn	11,424 98
	<u>\$46,145 47</u>

SCHOOL HOUSES.

As there had been many disputes in years past between the School Committee and the Committee on Lands and Buildings of the City Council, in relation to the janitors of the schools and the bills for repairs and improvements, it was determined at the outset of this year to effect, if possible, some agreement by which these ever-recurring annoyances might be avoided.

Accordingly the School Board authorized its Sub-committee on School Houses and Hygiene to confer with the Committee of the Common Council and settle all standing disputes and such questions as might induce to unpleasantness in the future.

A satisfactory adjustment was speedily arranged between the Committees, and the consequence has been that an unusual year of harmony has prevailed.

The janitors have remained under the control of the Committee on Lands and Buildings and have been paid from the appropriation for School Houses, which appropriation is wholly under the control of this Committee. The bills, also, for all permanent improvements and repairs, have been defrayed out of the same appropriation, while the running expenses of the schools, such as heating apparatus, furniture, etc., has been charged to the appropriation for schools.

While in Wards One and Five, and on Fayette Street in Ward Six, several school rooms are unoccupied, the increase of the school population in Wards Two, Three and Six required that additional accommodations should be afforded. Prompt attention was given to the demands of the Board, and four schools were enlarged by the addition of two rooms each, and another room added to the London Street School.

The aggregate cost of these nine rooms was \$14,802.52. When the large amount of school accommodation thus furnished is considered, and the convenient and excellent arrangement on the whole of these rooms for the purposes intended, more than usual credit is due the Building Committee for their prudent management and intelligent heed to the wants of the schools; and in especial is credit due to the Chairman of this Committee, who from his experience as a practical builder, was enabled to put into practical form such ideas and suggestions as were offered by members of the Board.

In the construction of these additions careful heed has been given to hygienic details, and with reference to light and ventilation the best possible arrangements have been provided.

The Central Street School was completely remodeled, and a very

convenient and neat structure stands as evidence of the good taste and understanding of Alderman Howe, who planned and superintended the improvements. This building is the only one of the four-room buildings erected this year which is supplied with steam heat, but could the Committee have been aware of the condition of their appropriation at the close of the year, undoubtedly the other schools would have been heated in the same manner. It is to be hoped that during the coming year that all four-room buildings at least will be provided with steam heating apparatus.

In the basement of the Central Street School latrines have been placed. In the other schools that have been enlarged, similar conveniences should be afforded, as they can be conveniently, and at moderate cost, for in the construction of the additions to the several buildings attention was given to the probable provision of such arrangements in the future.

There are many buildings, and particularly those of two rooms, throughout the city, that were evidently intended at the time they were opened, to provide for the temporary and immediate necessities of the schools. These buildings are defective in essential principles of construction and convenience. In many the only effective means of ventilation provided is that which is afforded from the doors and windows, and in other ways are these buildings unsuitable for school purposes.

This matter is considered of such importance that the attention of the Board is called again to the schools of this character in the more densely populated portions of the city. The sites occupied by the Charles Street, Church Street and Elliott Street Schools are very valuable for business purposes, and can be readily disposed of for a sum sufficient to erect a substantial eight-room building that would accommodate all of these schools, and could be provided with the essentials for good school work. Proper lighting, heating, and perfect ventilation are indispensable for both teachers and pupils in the way of obtaining good results, and are regarded of the first importance by all teachers.

If, in this section, parents and those who have the management of our schools were impressed with the like importance, with reference to the health of both scholars and teachers, properly constructed buildings would speedily displace the present unwholesome structures.

In Centralville and the Highlands during the coming year more room will be needed. An addition to each of the Grammar Schools in these districts would be preferable to the erection of new buildings.

ATTENDANCE.

The growth of the schools within the last decade was marked and rapid up to the close of the Summer term in 1882—the yearly rate of increase being about 200. Since then there has been a slight decrease in the average number belonging until the present year. According to the returns from the schools for the year just closed, the average number belonging is 6,954, a slight excess over the largest number ever before reported. The decrease in the school population, as shown by the report of the census enumerators, is 198.

In view of the fact that there has been such a decrease of school children throughout the city, the gain in the number belonging to the public schools may be largely ascribed to the accessions received from private and parochial schools.

As various causes tended to affect the regular attendance of the younger children in particular, the average attendance remains the same as last year. This number is 21 less than the largest number reported before the establishment of the parochial schools, which number at present about 2000 scholars.

HIGH SCHOOL.

Nothing has occurred during this year to conflict with the progress and condition of the High School.

The number of scholars admitted from the Grammar Schools was 127. The present number belonging is 370. The graduating class of this year numbered 81.

Many of the graduating class are continuing their education at various institutions. Three passed the final examination for admission to Harvard, obtaining honors in several branches; one was admitted at Amherst; one at Brown; three at the Institute of Technology; and others have entered the medical or law schools. Several of the young ladies have also entered different colleges.

Those who elect a mercantile profession find ready employment, although in many cases at the foot of the ladder; and it is a fact that the demand for young men who are graduates of our High School largely exceeds the supply.

An important and long desired change was made during the year in the number of recitations a day, and the duration of time for each. The table on the opposite page shows arrangement of classes for the past term.

ORDER OF EXERCISES. FIRST HALF-YEAR, 1885-86.

TIME FOR THE VARIOUS EXERCISES.															
TEACHERS.	1.		2.		Recess and Study.		3.		4.		Recess.		5.		Room No.
	8.40 to 9.20 A. M.		9.22 to 10 A. M.				10.42 to 11.20 A. M.		11.22 A. M. to 12.00 M.				12.14 to 1.00 P. M.		
Mr. Coburn.....	Physics.....						Physics.....						Chemistry.....	1.	
Mr. Sherburne.....	Virgil.....		Cicero.....						Greek.....				Greek.....	2.	
Miss Webster.....	Cæsar.....		Geometry.....				Latin.....		Mathematics, Review				Latin at sight.....	R. 1.	
Miss Baker.....	French.....		French.....				French.....		French.....				French.....	3.	
Miss McDaniels.....	English Literature...		Virgil.....				Physiology.....		Physiology.....				English Literature...	4.	
Miss Hovey.....	Cæsar.....		Latin.....				French.....		Latin.....				Cæsar.....	R. 2.	
Miss Draper.....	Astronomy.....		Natural Philosophy..				Latin.....		Geometry.....				History.....	5.	
Mrs. Chase.....	Algebra.....		Natural Philosophy..				Physical Geography..		Geometry.....				Physical Geography..	7.	
Miss Keese.....	Algebra.....		Natural Philosophy..				German.....		French.....				English Composition.	6.	
Miss Watson.....	Algebra.....		Arithmetic.....				History.....		Natural Philosophy..				English Composition.	9.	
Miss Stevens.....	Algebra.....		Algebra.....				History.....		Arithmetic.....				English Composition.	10.	
Miss Allen.....	Algebra.....		Natural Philosophy..				Arithmetic.....		Algebra.....				English Composition.	8.	

Military Instruction on Monday and Thursday from 12 to 1. On Saturday the first hour is devoted to general exercises.

The employment of two additional lady assistants enabled this change to be made. By the present arrangement each teacher has a less number of classes during the week, and can give a longer time to each class. So that about one-fourth more time is given to each class during the term than formerly.

In the Summer vacation what remained of the original hall was divided into two rooms. On account of this change no room remains in which the whole school can be assembled, and the need of such a room is deeply felt. This is a desideratum of long standing and ought to be supplied. In the report of 1884, attention was called to it, and once again because of the importance which attaches to its consideration, I would urge it upon your notice. In every Grammar School as well as in the High School there should be a room in which the frequent assembling of the whole school may occur. Instead of being regarded as a desirable convenience or an expensive luxury, it ought to be considered as a most necessary and useful adjunct in school work.

Frequent meetings of all the classes and all the teachers beget a love for a school as a whole on the part of scholars and teachers, and a spirit of good discipline and good moral influences prevail, as results.

As our High School has outgrown its present accommodations, it will be necessary to enlarge the building or transfer the School, as has been suggested, to the Green School building. If such a change were decided upon, with an addition to the Green School building, better facilities for general school purposes would be obtained.

The graduating exercises were held in Huntington Hall on the evening of July 1, and consisted of the following programme:—

ORDER OF EXERCISES.

ORCHESTRA.	
SINGING.—“The Skies Resound.”	Beethoven.
NATIONAL INJUSTICE	Parker.
WALLACE V. ADAMS.	
SUPERSTITIOUS BELIEFS	Written by Minnie C. Gray.
MINNIE C. GRAY.	
CHILDREN IN HISTORY	Written by Helen F. Greene.
ETHEL G. WHEELER.	
SEMI-CHORUS.—“Peasant Wedding March”	A. Soderman.

IT TAKES TWO TO QUARREL *Written by Sadie L. Joyce.*
SARA E. JOHNSON.

GUALBERTO'S VICTORY *Donnelley.*
EDWIN S. BIGELOW.

SINGING.—"Away in the Old Cathedral" *J. Eichberg.*

THE MERRIMACK IN SONG AND STORY . . . *Written by Minnie L. Butland.*
MARIETTA C. CASSIDY.

THE PRIVATE SOLDIER *Butler.*
FRED. W. JANVRIN.

ORCHESTRA.

A REFLECTION ON REFLECTIONS *Written by Mary L. Child.*
SUSIE M. TURNER.

THE WASHINGTON MONUMENT. *Winthrop.*
GEORGE A. WHITMORE.

SEMI-CHORUS.—"The Woodbird's Song" *S. Glover.*

CLASS REUNION IN 1905. Place--Winnipeg, Manitoba, U. S.

ELIZABETH H. DICKEY.

HERBERT C. CHASE.	KATHARINE DEMPSEY.	MARY KIMBALL.
WALTER F. LEIGHTON.	ETTA B. FIFE.	EVA F. GOULDING.
FRANK B. MCCARTHY.	ALICE G. HAMBLETT.	ALICE A. HOLTHAM.
DAVID C. DONOGHUE.	DELIA J. SMITH.	

SINGING.—"Morning Invitation" *G. A. Veazie, Jr.*

AMBITION, WITH VALEDICTORY ADDRESS . . *Written by Arthur W. Hodgman.*
HARRY B. TAYLOR.

PRESENTATION OF CARNEY MEDALS.

BY JOHN J. PICKMAN, ESQ.

PRESENTATION OF DIPLOMAS.

BY HIS HONOR. THE MAYOR.

SINGING OF CLASS ODE *Written by Ethel G. Wheeler.*

We pause ere we pass through the portal;
Sweet mem'ry throws 'round us her spell;
Half sadly we think of our meeting,
That morn we remember so well.
Then the paths that were stretching before us
'Neath shadowless skies seemed to lie;
Too quickly those paths have been traversed,
For, as classmates, we now say good-by.

REPORT OF THE SUPERINTENDENT.

We glance, though we may not step backward,
 Down the slopes by the sunshine kissed,
 Then turn to the wonderful future,
 All shrouded in golden mist.
 We are waiting for marching orders,
 With pennons and armor unstained,
 Every heart beating high for the conflict,
 As we think of the heights to be gained.

With "Aim at an End" for the motto
 Inscribed on our banner of life.
 With a courage that fails not or falters,
 We'll bravely press on to the strife.
 Then, at last, when life's battles are over,
 Our victories many or few,
 May we hear the "Well done" of the Master.
 As we pass him in final review.

GRADUATES FOR 1885.

FOUR YEARS' COURSE.

Frederick William Bradley.	Walter French Leighton.
Herbert Chester Chase.	Harry Burlingame Taylor.
Daniel Thomas Fitzgerald.	Frank Wallae Thayer.
John Goudie Gordon.	Patrick Henry Walsh.
Thomas Francis Harrington.	George Alden Whitmore.
Arthur Winfred Hodgman.	Charles John Wier.
Frederic Artemas Holden.	Helen French Greene.
Nettie Whidden Barnard.	Alice Grace Hamblett.
Annie Harnden Bedlow.	Mary Kimball.
Mary Lucy Child.	Graec Scribner.
Katharine Dempsey.	Susie Mabel Turner.
Elizabeth Nelson Dickey.	Grace Isabel Washburn.
Etta Blanche Fife.	Ethel Gertrude Wheeler.
Eva Frances Goulding.	Fanny Eléeta Wier.

THREE YEARS' COURSE.

Wallae Vernon Adams.	William Henry Howard.
Horace Everett Atkins.	Fred Warren Janvrin.
Edwin Sherman Bigelow.	Etta Caroline Abbott.
Francis Martin Brogan.	Grace Charlotte Brown.
Joseph Cavanaugh.	Minnie Ladd Butland.
Marion Sanborn Clark.	Marietta Ursula Cassidy.
David Clement Donoghme.	Mary Isabel Dempsey.
Willis Prescott Eaton.	Elizabeth Frances Garra.
Arthur Lang Foster.	Mamie Alice Gorman.
Henry Hoyt Hilton.	Minnie Clorinda Gray.

Esther Verecunda Green.	Frank Edwin Worthley.
Bertha Ione Greene.	Sarah Lizzie Joyce.
Carrie Elvira Hardy.	Annie Phillips Kidder.
Minnie Frances Hill.	Margaret Josephine King.
Alice Ann Holtham.	Frances Agnes Maxwell.
Sara Eliza Johnson.	Elizabeth Margaret McCarthy.
George Allen Lawrence.	Margaret Teresa McCarthy.
William Patrick McCarthy.	Annie Genevieve McDermott.
Frank Bernard McCarthy.	Lizzie Alice Molloy.
James Henry McMahon.	May Gorham Paine.
Thomas Henry Moran.	Nellie Inez Richardson.
Gardner Whitman Pearson.	Mary Grace Sawyer.
Fred Sanborn.	Mary Ellen Shephard.
John Joseph Watson.	Delia Jennie Smith.
Burton Howe Wiggin.	Carrie Myra Sprague.
Frederic Gilman Wilson.	Isabella Freeman Swapp.
Annie May Thompson.	

CARNEY MEDAL SCHOLARS.

Arthur Winfred Hodgman.	Etta Blanche Fife.
Gardner Whitman Pearson.	Delia Jennie Smith.
Frank Bernard McCarthy.	Eva Frances Goulding.

GRAMMAR SCHOOLS.

No material changes have been made during the year, aside from the opening of new rooms in the Butler and Colburn Schools, and a change of masters in the Pawtucket School. Mr. Semple resigned in September to pursue a different calling, and Mr. Cyrus W. Irish, a graduate of Harvard of the class of 1885, was appointed his successor.

As was anticipated, at the time that the boundary lines for the different Grammar Schools were established, there is immediate need of enlarging the Green School district. The number of Primary scholars received at the Green School in September was fifty-six, while the number received into the Bartlett School, an adjacent district, was over one hundred. Consequently, while the lower rooms of the latter school are overcrowded, the corresponding rooms of the same grades of the Green School are very small. By including that portion of the Bartlett School district northerly of Merrimack Street to Pawtucket Street, the number of Primaries for each of these schools would be more nearly equal.

In last year's report mention was made of the very probable need of more room to accommodate the increasing numbers in the

Highland and Varnum Schools. Last year it was found necessary to remove the Primary scholars from both of these buildings, and, during the coming year, unless additions are built to both schools, classes must be located in the Engine House, in Centralville, and in the Franklin Primary School building, an arrangement which, for various reasons, absolute necessity alone should compel.

THE COURSE OF STUDY.

On account of the many new studies introduced within a few years, and the changes in the methods of instruction, it seems, that, even with the addition of a year to the Grammar School course, teachers and pupils have more work than can be performed with the requisite thoroughness. If, therefore, industrial training is to be added to the curriculum—and there is every indication of a movement in that direction—it will certainly be necessary to abridge the present course of study.

The table subjoined shows the weekly allotment of time in minutes for each exercise for the different classes, according to the present arrangement.

EXERCISES.	CLASSES.					
	1	2	3	4	5	6
Reading	150	170	190	230	270	310
Spelling	80	80	100	100	100	120
Language	230	230	230	250	230	170
Composition	60	60	60	60	60	60
Writing	80	80	80	110	110	110
Arithmetic (mental and written) .	360	330	320	320	300	300
Geography	140	150	150	180	180	180
History	150	150	120			
Physiology	40	40	40	40	40	40
Drawing	60	60	60	60	60	60
Music	60	60	60	60	60	60
General Exercises	30	30	30	30	30	30
Opening Exercises	30	30	30	30	30	30
Recesses	90	90	90	90	90	90

Book-keeping alternates with Writing in the First Class.

To discard entirely any of the studies in the course does not seem desirable, but in Arithmetic and Geography less might be required to advantage. For instance, such subjects as Insurance, Partial Payments, Taxes, Equation of Payments, Bonds, Exchange, Partnership, Mensuration, and one or two more, might be put into the first half year of the High School course, and more time given in the lower grades in securing accuracy and rapidity in the fundamental principles.

Time could be gained also by using the Geography in the lower classes chiefly for reading exercises and object lessons, and gradually increasing the study of the essentials of the subject. The larger Geography might be dispensed with until the last year, as the elementary book contains all that is necessary up to that time. Again, in language, time might well be conserved by a change of text-book.

By curtailing in such manner, and constraining the special teachers to observe the prescribed limits, which in their enthusiasm they often overstep, it is possible to more thoroughly perform the work in the lower classes, and in the upper classes to find time to undertake industrial training.

With regard to the introduction of this branch, I would suggest that some of the rooms, at present unoccupied, be supplied as well with the needed appliances for illustrating the Mechanical Powers, as with mechanics' tools and material.

A large per cent. of our pupils leave school at the close of the Grammar course, and it seems very desirable that they should have some knowledge of these principles. They should be familiar with the construction and working of the simple machines or Mechanical Powers, and also with the common Laws of Nature.

The subjects of heat, light, and electricity, as related to the daily experience of every individual, can be illustrated in a simple manner, and should receive some attention in the Grammar Schools.

A portion of the time now devoted to other branches could be very profitably spent in this direction, and with greater advantage to the scholar. For those pupils who are to continue their studies beyond the Grammar School, it would give them a much needed preparation and enable them to comprehend the advanced work in their course.

PRIMARY SCHOOLS.

Principally with the Primary Schools during the past year has my attention been engaged. The work of reorganizing and regrading these schools began early in the year, and is now completed.

The number of different schools of this grade reported last year was 82; this year the number is 28. The reason for this seeming reduction in schools is that each room in a building is no longer considered a separate and distinct school. Wherever two or more rooms were maintained in any building they have been made to constitute a single school. In some cases even the rooms of different but adjacent buildings have been established as one school.

The Central Street School, for instance, with two annexes on Chapel Street, is the largest of the Primaries, and consists of eight rooms in three buildings—two of them in adjoining lots and the third distant about one hundred yards.

These rooms were combined not so much on account of their close proximity as for the advantages to be derived from a better system of grading. The work of regrading the schools accompanied that of reorganization throughout, and care was exercised to assign the different classes according to the aptitude of the teachers for the work required.

With such changes in the arrangement of the schools, it became no longer necessary or desirable to designate them by numbers. These were accordingly abolished, and the schools were named from the streets upon which they are situated, or to which they stand adjacent, except the school on Common Street, which was called the Morrill School, in honor of Mr. Charles Morrill, who for nearly twenty years filled the office of Superintendent of Schools.

Principals have been appointed for each school and confirmed by the Board, and the great improvement already manifest in order, in discipline, and in work, affords satisfactory evidence of the wisdom of these changes.

The supervision by the Grammar masters of the schools tributary to their own has been continued, and has become a part of our school system. In each district the master is recognized as the head, and is responsible in some degree for results. His advice is sought in matters and methods of study, and his suggestions valued. Material aid is thus afforded to the Primary teachers, and the prosperous condition of their schools is due in some measure to the encouragement and assistance thus derived.

Monthly reports are rendered of the schools of each district by the masters and are preserved at the Committee rooms for reference. These reports supplant the former term reports and furnish desirable information with regard to the condition of the several schools.

Attention has been called before to the practice of allowing children to enter the Primaries of the lowest grades at any and

all times during the year, and this matter seems to me to be of such moment that I take the liberty of commending it again to your consideration. To illustrate the present state of things, let me instance a room of beginners in which fifty-four scholars—an average number—have been registered during the last term of the year. Upon looking over the register I find that sixteen have entered since September, and eight of these have entered within the last few weeks. It is not to be expected that these children can do the work of those who have had the advantage of the training of the two months preceding. Nor can new classes be formed without taking from the time of those who have just been started. And every Spring it occurs in many of these schools that assistants are required on account of the numbers that crowd upon the teachers; yet little relief can be in this way afforded, and but poor work accomplished at best.

That there should be some restriction placed upon admission to these schools was urged by Mr. Prince, agent of the State Board of Education, during his visit last Spring, and he suggested that scholars be admitted during the first months of the Spring and Fall terms. This suggestion, if adopted, would aid materially in the quality of the work done in all the classes of the Primary Schools, and would put an end to the inhuman over-crowding witnessed yearly in the lower classes.

To show that the Committee have it in their power to control the admission of scholars to the schools, permit me to quote the following language used by Chief Justice Shaw:

“There being no specific direction how schools shall be organized, how many scholars shall be kept, what shall be the qualifications for admission to the schools, the age at which children may enter, the age to which they may continue—these must all be regulated by the Committee under their power of general superintendence.”

One of the requirements of the rules of the School Board is that an examination for applicants to teach shall be held annually in the month of February under the direction of the Committee on Teachers. At the examination held this year thirty-six applicants appeared, and fourteen of this number were adjudged suitable persons to teach, and were accordingly recommended for certificates.

Several of the applicants who failed to obtain the rank required, had had more or less experience in teaching, and not a few presented testimonials certifying to their success as teachers; yet this evidence of capability in the actual management of a school had no weight in determining the selection.

The successful candidates obtained their certificates upon the results solely of a written examination—a very unsatisfactory basis certainly to form an estimate of the ability to govern, or aptitude to impart instruction. I would suggest that all applicants for schools be required to give to the special study and practice of teaching, a whole year at least, before or after obtaining certificates, and before they are appointed to schools as permanent teachers. And furthermore, that their permanent election depend upon a special examination by the Committee on Teachers, who shall judge of their fitness for school work by witnessing class exercises conducted by each one separately, in one or more of the different departments.

Several of the young ladies holding certificates have during the past year availed themselves of the permission granted by the Board, and have entered the schools to observe and gather what they may in this manner from the regular teachers. Should this permission be made a positive requirement, and opportunities afforded the applicants for practice, it would tend in some measure to make up for the lack of a training school, which seems to be for the present beyond our reach.

CHANGES IN SCHOOLS.

RESIGNED.

	Term of service.
Oliver C. Semple . . . Pawtucket School	2 years.
Bertha A. Baron . . . High School	1 year.
Lizzie N. Smith . . . Edson School	8 years.
Mary F. Burnham . . . Highland School	6 years.
Lizzie R. Murphy . . . London Street (Primary)	1 year.
Minnie B. Chase . . . Mammoth Road (Primary)	3 years.

TRANSFERRED.

Mary L. McSorley, from Primary to Butler Grammar School.
Elizabeth A. Balch, from Primary to Colburn Grammar School.

ELECTED.

Cyrus W. Irish	to Pawtucket School.
Susie L. D. Watson	to High School.
Mary G. Stevens	to High School.
Adelaide Baker	to High School.
Jennie L. Allen	to High School.
Carrie Stone	to Edson School.
Estelle L. Whitney	to Highland School.
Edith L. Monroe	to Highland School.
Georgia A. Harnden	to Carter Street School.
Annie M. Lee	to Agawam Street School.

M. Anastasia Lynch	. . . . .	to London Street School.
Katie F. Lawlor	. . . . .	to Central Street School.
Blanche E. Fay	. . . . .	to Central Street School.
Katie F. Murphy	. . . . .	to Ames Street School.
Katherine T. Lennon	. . . . .	to Tenth Street School.
Rose J. Delaney	. . . . .	to Mammoth Road School.
Henry T. Bailey	Teacher of Drawing.

NOT ELECTED.

George F. Willey	Teacher of Music.
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The teachers and scholars in the Worthen Street School were transferred in September to the Mann School building.

In September Miss Emma G. French, assistant in the Highland School, passed to a higher life, beloved and mourned by many friends. She was a skillful, patient and devoted teacher.

RESOLUTIONS.

Before closing this report recognition is due the labors and care bestowed on the schools of our city in the early years of its existence by one of the worthiest of our citizens,

DR. JOHN ORNE GREEN.

Dr. Green was a member of the School Committee for fifteen years, and for nine years as chairman wrote its reports. As an associate of Rev. Theodore Edson, he maintained with equal zeal the struggle for educational progress, which through their persevering efforts ended in the establishment of the present system of our public schools.

On December 23, 1885, at the age of four score and six years he ended a career that was eminently useful to his fellow-man, and sweet with the fragrance of many benedictions.

The following tribute to his memory was presented at the last meeting of the Board by Rev. R. A. Greene, and adopted by a rising vote.

Whereas, The death of Dr. John O. Green, one of the oldest and most respected citizens of Lowell, reminds us that another of the pioneer educators of youth in our city has passed to his reward; therefore,

Resolved, That by this bereavement the schools of Lowell have lost a friend who labored untiringly and unselfishly for their firm

planting and secure establishment. As the early and almost life-long associate of the venerable Dr. Edson, late rector of St Anne's Church, he joined with him, heart and hand, in promoting the cause of education in our midst. The public schools found in him a wise counsellor, an earnest sympathizer, and a generous giver of time and influence in their behalf. By men of noble principle and pure character were our public schools planted and fostered, and as those men pass away one by one, we feel more and more the responsibility that rests upon us to nobly and unselfishly carry on the work to which they dedicated so generous a portion of their lives.

Resolved, That the members of the School Board of 1885 desire to record an expression of their appreciation of the life and services of Dr. Green in the cause of education, and of his unblemished life and spotless character.

RANSOM A. GREENE,
HERBERT P. JEFFERSON,
LAWRENCE CUMMINGS,
Committee.

CONCLUSION.

Permit me to acknowledge my obligations to the teachers for their assistance and encouragement in the discharge of my duties; for their hearty coöperation in carrying out whatever changes have been made or suggestions given to benefit the schools or improve the methods of teaching; to each member of the School Committee, for the courtesy, forbearance, and confidence extended me in my labors for the improvement of the schools, for whose interests we are unitedly striving.

Respectfully submitted.

GEORGE H. CONLEY,
Superintendent.

REPORT OF THE TRUANT COMMISSIONERS FOR THE YEAR 1885.

1885.

	Absentees.	Truants.	New Scholars.	Wandering about the Streets.	Working without Certificates.	Juvenile Offenders.	Total Number of Cases Investigated.	Arrested.	Sentenced to the Reform School.	Placed on Probation.	Visited Second Time.	Visited Third Time.	Working Certificates Issued (14 to 16 years).	Working Certificates Approved (12 to 14 years).
January	63	11	0	1	1	0	76	2	1	1	5	0	76	42
February	67	14	1	0	1	2	85	0	0	0	9	0	81	36
March	99	37	1	1	3	2	143	6	5	1	17	2	179	44
April	70	16	0	1	0	0	87	4	1	3	8	2	91	34
May	117	59	2	2	0	3	183	14	5	9	20	7	114	54
June	105	40	0	0	0	1	146	7	1	6	19	3	116	56
September	68	16	0	0	5	1	90	0	0	0	6	2	375	134
October	103	16	0	0	0	1	120	2	1	1	4	1	118	30
November	65	27	0	2	0	0	94	11	3	8	10	2	121	31
December	32	9	0	0	0	0	41	0	0	0	1	0	74	28
Total	789	245	4	7	10	10	1065	46	17	29	99	19	1345	489

APPENDIX.

APPENDIX.

A.

ROLL OF TEACHERS.

GIVING NAME, GRADE, RESIDENCE, DATE OF ELECTION, AND SALARY.

HIGH SCHOOL.

Kirk and Anne Sts.

FRANK F. COBURN, Master, <i>Science</i> , 62 Moore Street	1880	\$2,000
FRANK B. SHERBURNE, <i>Language</i> , 3 Robbins Street	1883	1,800
MARY A. WEBSTER, <i>Language and Mathematics</i> , 17 Varney Street .	1860	800
MARIETTA MELVIN, <i>Language</i> , 381 Merrimack Street	1859	700
ELIZABETH MCDANIELS, <i>Language and Literature</i> , 162 Stackpole Street,	1868	700
HARRIET P. HOVEY, <i>Language</i> , 12 Fourth Street	1870	700
CHARLOTTE E. DRAPER, <i>Language and Science</i> , 37 Elm Street . .	1870	700
ALICE J. CHASE, <i>Science and Mathematics</i> , 158 Stackpole Street .	1877	700
M. JENNIE KEESE, <i>Language and English</i> , 4 Richardson Street .	1878	700
SUSIE L. D. WATSON, <i>Mathematics and English</i> , 31½ Dutton Street	1885	600
MARY E. STEVENS, <i>Mathematics and English</i> , 90 Chestnut Street .	1885	600
ADELAIDE BAKER, <i>Language</i> , 98 Sixth Street	1885	600
JENNIE L. ALLEN, <i>Mathematics and English</i> , 55 Branch Street . .	1885	600

BARTLETT GRAMMAR SCHOOL.

Corner of Hancock Avenue and Clark Street.

SAMUEL BEMENT, Master, 428 Merrimack Street	1851	\$1,700
MARIANNE B. KENT, <i>1st</i> , 428 Merrimack Street	1859	600
ABBIE E. FRENCH, <i>2d</i> , 40 Marion Street	1874	600

BELLE F. BATCHELDER, 3d, 7 Arlington Street	1883	\$600
BELLE A. PRESCOTT, 4th, 29 Mt. Washington Street	1878	600
M. IDA HOWE, 5th, 54 Methuen Street	1873	600
FRANCES M. TALBOT, 5th, 29 A Street	1882	600
LOLA CHENEY, 6th, 142 Worthen Street	1882	600
AMY L. TUCKE, 6th, 92 Fletcher Street	1879	600

Morrill School.

Common and Adams Streets.

ELLEN F. COUGHLAN, Prin., 2d and 3d, 15 Austin Street	1853	\$600
NELLIE M. BROWN, 1st and 2d, 158 Fletcher Street	1865	600
ISABELLA V. MCANULTY, 4th and 5th, 7 Hurd Street	1867	600
CHARLOTTE E. BROWN, 6th, 158 Fletcher Street	1870	600

Cabot Street School.

Corner of Cabot and Ford Streets.

LOTTIE M. FURNALD, Prin., 3d and 4th, 20 Mt. Washington Street	1880	\$600
MARY A. BEARD, 1st and 2d, 31 Walker Street	1844	600
MARTHA A. NEAL, 5th and 6th, 11 Dodge Street	1847	600

School Street School.

School Street, between Pawtucket and Bowers Streets.

ANNIE S. HARLOW, Prin., 1st, 2d and 3d, 23 Pawtucket Street	1873	\$600
M. CARRIE STILES, 4th, 5th and 6th, 32 Varney Street	1873	600

Rock Street School.

Corner of Rock and Willie Streets.

SARAH E. SCALES, Prin., 1st, 2d and 3d, 10 Ralph Street	1866	\$600
ELLEN M. WHITE, 4th, 5th and 6th, 89 Grove Street	1863	600

Cheever Street School.

Cheever Street.

MARY J. MEADE, ungraded, 1 Clark Street	1880	\$600
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BUTLER GRAMMAR SCHOOL.

Gorham Street.

CORNELIUS F. CALLAHAN, Master, 5 Fenwick Street	1884	\$1,700
FRANCES M. WEBSTER, 1st, 17 Varney Street	1873	600
LAURA F. HOWE, 2d, 166 Stackpole Street	1856	600
NELLIE KEEFE, 3d and 4th, 41 Cedar Street	1879	600
NELLIE F. MURPHY, 4th, 50 Elm Street	1878	600
CARRIE A. MILES, 5th, 18 Tyler Street	1882	600
KATIE E. KELLEY, 5th, 213 Gorham Street	1883	600
DELIA T. BRADY, 6th, 375 Central Street	1877	600
MARY L. MCSORLEY, 6th, 20 Ash Street	1879	600

Lyon Street School.

Corner of Lyon and Central Streets.

KATIE F. FAY, Prin., 1st and 2d, 94 Stackpole Street	1880	\$600
ALICE T. LEE, 3d and 4th, 113 Lawrence Street	1878	600
MARY J. MCCARRY, 5th, 92 Cross Street	1881	600
NELLIE A. HUNT, 6th, 1 Linden Street	1884	500

Carter Street School.

Carter Street.

BELLE T. VINAL, Prin., 1st and 2d, 6 Simpson Place	1873	\$600
GEORGIA A. HARNDEN, 3d and 4th, 39 Pleasant Street	1885	450
CORNELIA M. DAVIS, 5th and 6th, 40 Rock Street	1871	600

Agawam Street School.

Corner of Agawam and Barrington Streets.

MARY McLAUGHLIN, Prin., 1st and 2d, 234 Lawrence Street	1879	\$600
ANNIE M. LEE, 3d and 4th, 113 Lawrence Street	1885	450
BRIDGET T. MAGUIRE, 5th and 6th, 22 Lyon Street	1882	600

London Street School.

Corner of London and West Streets.

LIZZIE R. MCGUIRE, Prin., 1st, 2d and 3d, 22 Lyon Street	1884	\$500
M. ANASTASIA LYNCH, 4th, 5th and 6th, 31 Abbott Street	1885	450

COLBURN GRAMMAR SCHOOL.

Lawrence Street.

GEO. W. HOWE, Master, 54 Methuen Street	1880	\$1,700
ELIZABETH W. FROST, 1st, Fairmount Street	1857	600
SARAH J. CROSBY, 2d, 151 Gorham Street	1868	600
SUSAN M. ANDREWS, 3d and 4th, 42 Walnut Street	1864	600
MARY A. HAMMILL, 5th, 24 Linden Street	1875	600
ELIZABETH A. BALCH, 5th, 133 E. Merrimack Street	1873	600
KATE G. McLAUGHLIN, 6th, 62 Suffolk Street	1878	600
ARVILLA L. READER, 6th, 106 Appleton Street	1871	600

Central Street School.

Central Street, opposite Hudson Street.

ELIZA COWLEY, Prin., 1st, 178 Lawrence Street	1857	\$600
CHARLOTTE McDANIELS, 2d, 162 Stackpole Street	1878	600
KATIE F. LAWLOR, 3d and 4th, 60 Church Street	1885	450
BLANCHE E. FAY, 5th and 6th, 44 Elm Street	1885	450

CHAPEL STREET ANNEXES.

KATIE E. MCOWEN, 3d and 4th, 88 South Street	1882	\$600
HATTIE A. KNOWLES, 5th and 6th, 51 Hudson Street	1882	600
LUCY F. CARLETON, 3d and 4th, 42 Chapel Street	1855	600
MAGGIE A. HARRIHAN, 5th and 6th, 20 Marshall Street	1882	600

Ames Street School.

Corner of Lawrence and Ames Streets.

AMANDA M. HADLEY, Prin., 1st and 2d, 38 Westford Street	1870	\$600
KATIE F. MURPHY, 3d and 4th, 41 Lawrence Street	1885	450
MARY E. DREW, 5th, 28 Wamesit Street	1868	600
LIZZIE M. HADLEY, 6th, 117 Moody Street	1869	600

Church Street School.

Church Street, near George Street.

MARY J. ALGER, Prin., 1st, 2d and 3d, 54 Chapel Street	1868	\$600
ABBIE V. WHEELER, 4th, 5th and 6th, 185 Moody Street	1879	600

EDSON GRAMMAR SCHOOL.

Highland Street.

C. W. BURBANK, Master, 92 Bowers Street	1872	\$1,700
MARY E. STONE, 1st, 23 Cottage Street	1874	600
MARIA C. R. SWAN, 2d, 75 Appleton Street	1862	600
NETTIE E. CARLETON, 3d, 42 Chapel Street	1867	600
ANNA A. SARGENT, 4th, 152 Appleton Street	1864	600
MARY F. CARLETON, 4th, 42 Chapel Street	1856	600
FANNIE A. SCRIPTURE, 5th, 269 Central Street	1873	600
ROSALIE T. BURNS, 5th, 7 Prescott Corp.	1878	600
CARRIE STONE, 5th and 6th, 23 Cottage Street	1885	450
MARY A. BALCH, 6th, 126 Appleton Street	1865	600
KATE F. HAYES, 6th, 13 Floyd Street	1879	600

Elliott Street School.

Corner of Middlesex and Elliott Streets.

ELLEN A. STILLINGS, Prin., 4th and 5th, 107 Howard Street	1875	\$600
MARIETTA McEVOY, 1st and 2d, 5 Agawam Street	1881	600
NELLIE T. O'GRADY, 2d and 3d, 59 Newhall Street	1881	600
WINIFRED HAGGERTY, 6th, 77 Chestnut Street	1884	500

Howard Street School.

Howard Street, between Chelmsford and Hale Streets.

ELLEN A. BRIDGE, Prin., 1st and 2d, 54 Chapel Street	1857	\$600
MARION E. GREENE, 3d and 4th, 113 Howard Street	1884	500

HOWARD STREET ANNEX.

Grand Street, between Westford and Middlesex Streets.

IDA J. FLINT, 5th and 6th, 142 Liberty Street	1880	\$600
JENNIE M. BENNETT, 5th and 6th, 246 Westford Street	1885	450

Charles Street School.

Charles Street, between Gorham and Chapel Streets.

ALICE T. OWENS, Prin., 1st, 2d and 3d, 45 Walnut Street	1878	\$600
ABBY L. SARGENT, 4th, 5th, and 6th, 174 Stackpole Street	1873	600

GREEN GRAMMAR SCHOOL.

Merrimack Street.

A. L. BACHELLER, Master, 287 Central Street	1874	\$1,700
RUTH B. BAILEY, 1st, 200 Moody Street	1871	600
ANNIE E. RICHARDSON, 2d, 63 Bowers Street	1871	600
LIZZIE A. NOLAN, 3d, 74 Mt. Vernon Street	1876	600
CLARA A. HANNAFORD, 4th, 109 Salem Street	1869	600
KATE F. CASSIDY, 5th, Mt. Grove Street	1883	600
ELLA J. CARLETON, 5th, 316 Bridge Street	1882	600
LULIE A. HUNTOON, 6th, 11 Butterfield Street	1882	600
LENA A. GOOKIN, 6th, 15 Branch Street	1880	600

Mann School.

Corner of Lewis Street and Broadway.

MARY L. HILL, Prin., 2d, 126 Worthen Street	1858	\$600
MINNIE C. SMITH, 1st, 130 Appleton Street	1877	600
ELLEN A. CORBETT, 3d and 4th, 65 Gorham Street	1878	600
MARIETTA F. CROWLEY, 3d and 4th, 23 Marion Street	1879	600
ELLA E. GARDNER, 5th and 6th, 4 Mt. Washington Street	1871	600
LILLA J. GREENHALGE, 5th and 6th, 10 Ash Street	1871	600

Kirk Street School.

Corner of Kirk and Lee Streets.

MERCENA F. WHITEHORN, Prin., 1st, 2d and 3d, 333 Beacon Street	1877	\$600
LAURA H. PALMER, 4th, 5th and 6th, 167 Bridge Street	1882	600

HIGHLAND GRAMMAR SCHOOL.

West Pine Street.

CHAS. W. MOREY, Master, 113 Smith Street	1880	\$1,700
ALICE M. CLARKE, 1st, 46 Chapel Street	1878	600
ABBIE F. WOODWARD, 2d, 73 Branch Street	1869	600
ADELAIDE F. BENNETT, 3d, 129 Walker Street	1882	600
LUELLE A. WARDWELL, 4th, 30 School Street	1870	600
FANNIE M. CLARK, 4th, 30 School Street	1874	600
ESTELLE L. WHITNEY, 5th, 101 Chapel Street	1885	450
EDITH L. MONROE, 5th, 81 Appleton Street	1885	450
HATTIE B. FRYE, 6th, 26 Walker Street	1882	600
MARY S. GERRY, 6th, 5 School Street	1884	500

Franklin School.

Corner of Branch and Middlesex Streets.

SARAH J. FISKE, Prin., <i>1st</i> and <i>2d</i> , 134 Appleton Street	1866	\$600
LIZZIE S. LOWE, <i>3d</i> and <i>4th</i> , 3 Nichols Street	1857	600
MARION J. STEVENSON, <i>5th</i> , 45 Princeton Street	1878	600
KATIE G. JONES, <i>6th</i> , 49 Andover Street	1880	600

Plain Street School.

Corner of Plain and Powell Streets.

LAURA E. LEE, Prin., <i>4th</i> , <i>5th</i> and <i>6th</i> , 141 Grand Street	1873	\$600
FLORA H. SPRAGUE, <i>1st</i> , <i>2d</i> and <i>3d</i> , 14 School Street	1882	600

Dover Street School.

Dover Street, between Middlesex and Grove Streets.

CLARA B. HORNE, Prin., <i>1st</i> , <i>2d</i> and <i>3d</i> , 20 South Highland Street .	1877	\$600
CLEMENTINE H. BOWERS, <i>4th</i> , <i>5th</i> and <i>6th</i> , 18 Loring Street . . .	1876	600

Powell Street School.

Powell Street, Near Liberty Street.

VIOLA A. HAMBLETT, Prin., <i>4th</i> , <i>5th</i> and <i>6th</i> , 60 School Street . . .	1876	\$500
CARRIE J. BAILEY, <i>1st</i> , <i>2d</i> and <i>3d</i> , 16 Loring Street	1884	500

Middlesex Village School.

ELIZABETH A. COTTING, <i>ungraded</i> , 64 Baldwin Street	1876	\$600
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MOODY GRAMMAR SCHOOL.

Corner High and East Merrimack Streets.

WILLIAM S. GREENE, Master, 195 Westford Street	1883	\$1,700
ALICE M. SANBORN, <i>1st</i> , 27 Clay Street	1881	600
MARY E. WAY, <i>2d</i> , 22 Tyler Street	1858	600
CARRIE F. SMITH, <i>3d</i> , 82 East Merrimack Street	1883	600
CLARA A. EATON, <i>4th</i> , 69 Myrtle Street	1882	600
LAURA J. PINDAR, <i>5th</i> , 35 Tyler Street	1856	600
FRANCES E. HARDMAN, <i>6th</i> , 158 Stackpole Street	1873	600
FRANCES E. GARITY, <i>6th</i> , 8 Third Street	1874	600

Pond Street School.

Corner of High and Pond Streets.

AURELIA L. HOWE, Prin., <i>1st, 2d and 3d</i> , 166 Stackpole Street . . .	1844	\$600
MARIETTA HILL, <i>4th, 5th and 6th</i> , 64 Andover Street . . .	1870	600

High Street School.

High Street, between Chestnut and Everett Streets.

LUCRETIA A. DAY, Prin., <i>1st, 2d and 3d</i> , 214 Central Street . . .	1864	\$600
CLARA A. EMERSON, <i>4th, 5th and 6th</i> , 96 Appleton Street . . .	1869	600

Fayette Street School.

Fayette Street, between Chestnut and Everett Streets.

NELLIE KOHAWN, <i>ungraded</i> , Tewksbury	1877	\$600
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PAWTUCKET GRAMMAR SCHOOL.

Mammoth Road, Pawtucketville.

CYRUS W. IRISH, Master, 19 Mt. Washington Street	1885	\$1,000
NELLIE MACDONALD, <i>1st and 2d</i> , 84 Prince Street	1878	600
CELESTIA P. CHASE, <i>3d and 4th</i> , 131 School Street	1867	600
JULIA M. HEALEY, <i>5th and 6th</i> , 20 Bowers Street	1870	600

Mammoth Road School.

Pawtucket School Building.

ELLEN M. HOLDEN, Prin., <i>1st, 2d and 3d</i> , Stevens Street	1876	\$600
ROSE J. DELANEY, <i>4th, 5th and 6th</i> , 93 Market Street	1885	450

Varnum Avenue School.

LAURA J. GOULD, <i>ungraded</i> , Varnum Avenue	1874	\$600
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VARNUM GRAMMAR SCHOOL.

Myrtle Street, Centralville.

A. K. WHITCOMB, Master, 41 Methuen Street	1878	\$1,700
GEORGIANA F. VINTON, 1st, 32 Fourth Street	1872	600
HARRIET BRADLEY, 2d, 38 Fourth Street	1854	600
MINNIE F. WING, 3d, 47 Hampshire Street	1879	600
SARAH A. BRADLEY, 4th, 145 Bridge Street	1857	600
ALICE R. KEESE, 5th, 4 Richardson Street	1881	600
MARIA W. ROBERTS, 5th, 160 Bridge Street	1875	600
ADA MARTIN, 6th, 5 Robbins Street	1882	600
ROSA A. DOWD, 6th, 117 River Street	1884	500

West Sixth Street School.

West Sixth Street, between Coburn and Jewett Streets, Centralville.

STELLA J. ALLEN, Prin., 1st and 2d, 1 Myrtle Street	1879	\$600
ELIZA A. DAVIS, 2d and 3d, 40 Rock Street	1881	600
ELLA E. BRADLEY, 4th and 5th, 10 Sixth Street	1882	600
ADDIE L. RICHARDSON, 6th, 26 Merrimack Corp.	1884	500

Tenth Street School.

Corner of Tenth and Varnum Streets, Centralville.

MARY F. BEANE, Prin., 1st, and 2d, 78 Tenth Street	1879	\$600
MARTHA A. FRANKLIN, 2d and 3d, 67 Vernon Street	1866	600
KATHERINE T. LENNON, 4th and 5th, 4 Willie Avenue	1885	450
ELLA A. BAILEY, 6th, 164 Bridge Street	1869	600

River Street School.

River Street, Centralville.

SARA R. SWAN, Prin., 1st, 2d and 3d, 51 Fourth Street	1876	\$600
LIZZIE C. KENNEDY, 4th, 5th and 6th, 66 Hampshire Street	1884	500

TEACHER OF PENMANSHIP.

THOMAS M. GRAVES, 69 Lawrence Street	1883	\$1,000
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TEACHER OF DRAWING.

HENRY T. BAILEY, 79 Appleton Street 1885 \$1,000

MILITARY INSTRUCTOR.

CAPT. A. A. HANSCOM, 77 Appleton Street 1880 \$250

B.**SALARIES OF TEACHERS.****HIGH SCHOOL.**

Principal	\$2,000 00
First male assistant	1,800 00
First female assistant	800 00
Other female assistants, first year	600 00
“ “ “ second year	650 00
“ “ “ after second year	700 00

GRAMMAR SCHOOLS.

Principals (males)	\$1,700 00
Assistants, first year	450 00
“ second year	500 00
“ third year and after	600 00
Teacher of penmanship	1,000 00
Teacher of drawing	1,000 00

PRIMARY SCHOOLS.

Teacher, first year	\$450 00
“ second year	500 00
“ third year and after	600 00

TEMPORARY TEACHERS.

Male teachers, for every school-day's service	\$3 00
Female teachers in High School, for every school-day's service	1 75
Female teachers in other schools, for every school-day's service	1 25

EVENING SCHOOLS.

Principals, High School, per evening	\$4 00
“ Elementary, “ “	2 00
Male assistants, High School, per evening	2 00
Female “ “ “ “ “	1 50
“ “ Elementary School, per evening	1 25

C.

TEXT-BOOKS USED IN THE PUBLIC SCHOOLS.

Hilliard's Readers, Franklin Series.

PRIMARY SCHOOLS.

First Reader.
Second Reader.
Third Reader.
Franklin Primary Arithmetic.
Miss Stickney's Child's Book of Language.
Monroe's Reading Charts.
Primary Music Reader.
Mason's Music Chart.

GRAMMAR SCHOOLS.

Fourth Reader.
Intermediate Reader.
Fifth Reader.
Bradbury's Eaton's Practical Arithmetic.
Greene's Grammar.
Knox and Whitney's Elementary Lessons in English.
Swinton's Elementary Geography.
Swinton's Grammar School Geography, New England Edition.
Higginson's Young Folks' History of the United States.
Worcester's New Pronouncing Spelling Book.
Comprehensive Dictionary.
Thompson's Intellectual Arithmetic.
Duntonian Writing Books.
Smith's Drawing Books.
Hooker's Child's Book of Nature, permitted as a reading book.
Goodrich's Child's Book of United States History.
Intermediate Music Reader.
Fourth Abridged Music Lessons.

HIGH SCHOOL.

Allen and Greenough's Latin Grammar.
Leighton's Latin Lessons.
Allen and Greenough's Cæsar.
Allen and Greenough's Virgil.
Allen and Greenough's Cicero.
Allen and Greenough's Ovid.
Allen's Latin Composition.
White's Latin Lexicon.
Goodwin's Greek Grammar.
White's Greek Lessons.

Goodwin's Greek Reader.
Homer.
Liddell and Scott's Greek Lexicon (abridged).
Bocher's Otto's French Grammar.
Bocher's Otto's French Reader.
Fisher's Easy French Readings.
Bocher's College Plays.
James and Mole's French Dictionary.
Otto's German Grammar.
Otto's German Reader.
Methode Berlitz.
Adler's German Dictionary.
Eaton's Practical Arithmetic.
Eaton's High School Arithmetic.
Eaton's Algebra.
Bradbury's Trigonometry.
Davies' Surveying.
Greene's English Grammar.
Quackenbos' First Lessons in English Composition.
Class Book of Prose and Poetry.
Kellogg's Rhetoric.
Arnold's English Literature.
Underwood's Hand Book of American Authors.
Selected American Poems.
Selected Ballads and Lyrics.
Swinton's Outlines of History.
Curnow's History of England.
Leighton's History of Rome.
Pennell's History of Greece.
Pennell's History of Rome.
Martin's Civil Government.
Winslow's Intellectual Philosophy.
Cooley's Natural Philosophy.
Avery's Natural Philosophy.
Kiddle's Elementary Astronomy.
Avery's Chemistry.
Eliot and Storer's Manual of Chemistry.
Eliot and Storer's Qualitative Analysis.
Beristein's Qualitative Analysis.
Dana's Geological Story.
Wood's Botanist and Florist.
Hutchinson's Physiology.
Warren's Physical Geography.
Tozer's Classical Geography.
Meservey's Book-keeping.
Eichberg's Music Reader.
Upton's Infantry Tactics.
Arnott's Physies.

Stewart's Elementary Physics.
Todhunter's Algebra.
Wentworth's Geometry.
Wheeler's Trigonometry.
Bryce's Æneid (last six books).

D.

COURSE OF STUDY FOR THE PRIMARY SCHOOLS.

FIRST YEAR.

First Half—Monroe's Charts, and Franklin First Reader. Begin with words written upon the blackboard, using the names of familiar objects, and words expressing familiar acts.

Combine words into groups and sentences.

Pay particular attention to *tones* and *inflection*.

Spell the words in columns, by sounds.

Develop the idea of number to ten, by the use of objects. Count to one hundred on the numeral frame.

Teach the construction of letters and figures, and the simplest form of script letters, using slate and blackboard.

Second Half—Monroe's Charts, and First Reader. Spell by sounds.

Write words, groups of words, and sentences upon the blackboard, and require pupils to copy upon the slate. Give special attention to the forms of the letters.

Add and subtract small numbers, using the numeral frame and objects.

Teach Roman numerals to L.

Follow the Grube Method in numbers as far as to 4.

Practice object teaching, using such objects as are familiar to the child.

SECOND YEAR.

First Half—Second Reader. Practice "Enunciation Exercises" daily.

Spell, by letters and by sounds, words in columns and in reading lessons.

Teach the simplest form of script letters.

Teach Arithmetic orally. Grube Method as high as 8.

Teach Roman numerals to M.

Second Half—Second and Third Readers. Practice "Enunciation Exercises" daily.

Continue to teach the simplest form of script letters, and write sentences from dictation upon the slate.

Teach Arithmetic, using the Franklin Primary, and see that the pupils read the questions fluently and correctly before solving them. Teach multiplication table to 8 x 8.

THIRD YEAR.

First Half—Third Reader. Daily practise of exercise in enunciation. Spell words in columns and in reading lessons, by letters and by sounds. Teach the meaning of the words found in the reading lessons, and require scholars to use their own language in defining. Correct all faults in expression.

Teach all script letters, and require words and sentences to be written from dictation, upon paper.

Review the Arithmetic, taught during the second year, by oral questions similar to those in the text-books, and advance as far as practicable. Teach multiplication table as far as 10×10 .

Second Half—Third Reader. Continue exercises in enunciation, spelling, definitions, etc.

Use Miss Stickney's Child's Book of Language No. 1.

Review and complete the Arithmetic. Teach multiplication table to 12×12 .

Drawing should be taught in all the classes except first half of first year. In drawing and singing, follow the directions of the special teachers.

In each school a few minutes should be devoted at every session to physical exercises.

Monroe's Charts may be used at pleasure throughout the course.

E.

GRAMMAR SCHOOLS.

FOURTH YEAR.

READING.—Fourth Reader. Especial attention should be given the Introductory Exercises and the lessons in spelling and defining at the beginning of each reading lesson.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, to page 29; *Second Half*, from page 29 to 47.

ARITHMETIC.—From dictation; numeration and notation, addition and multiplication; amounts not to exceed a million. *Second Half*, from dictation; numeration and notation, addition and multiplication, subtraction and long division, not to exceed three periods. In subtraction, not more than two figures in the minuend to be less than the figures below them, and in division the divisor not to exceed 25.

LANGUAGE.—Elementary Lessons in English.

GEOGRAPHY.—Swinton's Elementary. *First Half*, to page 40; *Second Half*, from page 40 to 64.

HISTORY.—Child's Book of History as a reader.

MENTAL ARITHMETIC.—Thompson's Intellectual. Omit subtraction. *First Half*, to page 31; *Second Half*, including subtraction, from page 31 to 38.

FIFTH YEAR.

READING.—Fourth Reader, with daily drill on Introductory Exercises, spelling and defining.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 47 to 69; *Second Half*, from page 69 to 93.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, to page 60; *Second Half*, from page 60 to 87.

LANGUAGE.—Elementary Lessons in English. *First Half*, to page 67; *Second Half*, from page 67 to 95.

GEOGRAPHY.—Swinton's Elementary Geography. *First Half*, from page 64 to 82; *Second Half*, from page 82 to end.

HISTORY.—Child's Book of History as a reader.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, to page 42; *Second Half*, from page 42 to 65.

SIXTH YEAR.

READING.—Hilliard's Intermediate, with drill on Introductory Exercises, daily. Spelling and defining.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 93 to 111; *Second Half*, from page 111 to 131.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 89 to 102; *Second Half*, from page 102 to 134.

LANGUAGE.—Elementary Lessons in English. *First Half*, from page 95 to 137; *Second Half*, finish.

GEOGRAPHY.—Swinton's Grammar School Geography. *First Half*, to page 24; *Second Half*, from page 24 to 50.

HISTORY.—Child's Book of History as a reading book.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, from page 60 to 80; *Second Half*, omitting Compound Numbers, from page 80 to 108.

SEVENTH YEAR.

READING.—Hilliard's Intermediate Reader, with drill on exercises to secure distinct articulation and correct pronunciation and expression.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 131 to 139; *Second Half*, from page 139 to 145.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 134 to 160; *Second Half*, from page 160 to 180.

GRAMMAR.—Greene's Introduction. Review Elementary English Lessons first half of year. *First Half*, to page 54; *Second Half*, from page 54 to 88.

GEOGRAPHY.—Swinton's Grammar School. *First Half*, from page 50 to 70; *Second Half*, from page 70 to 86.

HISTORY.—Higginson's Young Folks' History of the United States, to be taught "by reading and familiar conversation." *First Half*, to page 74; *Second Half*, from page 74 to 142.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, from page 90 to 108; *Second Half*, omitting Interest, etc., from page 108 to 127.

EIGHTH YEAR.

READING.—Fifth Reader, with drill on Introductory Treatise. Spelling and definitions.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 145 to 155; *Second Half*, from page 155 to 163.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 180 to 204; *Second Half*, from page 204 to 229.

GRAMMAR.—Greene's Introduction. *First Half*, from page 88 to 123; *Second Half*, from page 123 to 149.

GEOGRAPHY.—Swinton's Grammar School. *First Half*, from page 86 to 106; *Second Half*, from page 106 to the end.

HISTORY.—Higginson's History of United States. *First Half*, from page 142 to 194; *Second Half*, from page 194 to 248.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, omitting Bank Discount, from page 117 to 126; *Second Half*, from page 123 to 133.

NINTH YEAR.

READING.—Fifth Reader. Systematic teaching of the Introductory Treatise.

SPELLING.—Worcester's New Pronouncing Speller. *First Half*, from page 163 to end; *Second Half*, review whole book.

ARITHMETIC.—Bradbury's Eaton's Practical. *First Half*, from page 229 to 263; *Second Half*, review from beginning.

GRAMMAR.—Greene's Introduction. *First Half*, from page 149 to end; *Second Half*, review from beginning.

GEOGRAPHY.—Swinton's Grammar School. Review from beginning.

HISTORY.—Higginson's History of United States. *First Half*, from page 248 to 342; *Second Half*, review from beginning.

MENTAL ARITHMETIC.—Thompson's Intellectual. *First Half*, from page 133 to end; *Second Half*, review from beginning.

GENERAL DIRECTIONS.

In Arithmetic, mental work to accompany written work daily.

In Geography, discriminate between the important and unimportant details in assigning lessons. Use as reading lessons in the Grammar School Geography, the separate States, the separate countries of South America, of Europe, of Asia, and of Africa.

Spell and define words in the various text-books. Oral spelling should be combined with written spelling, but the latter should predominate. In all spelling exercises, pronounce the word but *once*, to induce habits of attention.

Teachers will make frequent reviews of their own work, and also of the *work of preceding years*, for which they will be held responsible in examinations.

Declamation once a month by boys of First and Second Classes.

Compositions each week in every class, Elements of Book-keeping, Writing, Drawing and Music throughout the entire course.

F.

HIGH SCHOOL.

ENGLISH COURSE.

FIRST YEAR. *First Term*—Algebra, Outlines of History, English Composition. *Second Term*—Algebra, English History, Natural Philosophy.

SECOND YEAR. *First Term*—Geometry, Natural Philosophy, Physical Geography, *French*. *Second Term*—Geometry, Chemistry, English Grammar, *French*.

THIRD YEAR. *First Term*—Arithmetic, Physiology, English Literature, Astronomy, *French*. *Second Term*—Rhetoric, Geology, Political Science, *French*.

CLASSICAL COURSE.

FIRST YEAR. *First Term*—Algebra, Latin Grammar and Reader, English Composition. *Second Term*—Algebra, Latin Grammar and Reader, Natural Philosophy.

SECOND YEAR. *First Term*—Cæsar, Natural Philosophy, Geometry, *French*. *Second Term*—Cæsar, Chemistry, Geometry, *French*.

THIRD YEAR. *First Term*—Virgil, Arithmetic, *Chemistry, French*. *Second Term*—Virgil, Rhetoric, Political Science, *French*.

FOURTH YEAR. *First Term*—English Literature, Physiology, Astronomy, *German*. *Second Term*—English Literature, Geology, Botany, *German*.

COLLEGE COURSE.

FIRST YEAR. *First Term*—Algebra, Latin Grammar and Reader, English Composition. *Second Term*—Algebra, Latin Grammar and Reader, Greek History.

SECOND YEAR. *First Term*—Cæsar, Geometry, Roman History. *Second Term*—Cæsar, Geometry, Greek Grammar and Lessons.

THIRD YEAR. *First Term*—Virgil, Greek Reader, Mathematics. *Second Term*—Virgil, Greek Reader and Composition, Mathematics.

FOURTH YEAR. *First Term*—Cicero, Xenophon, Physics, College French. *Second Term*—Cicero, Herodotus, Physics, College French.

FIFTH YEAR. *First Term*—Latin at sight, Homer, Physics, Chemistry. *Second Term*—Latin Reviews, Greek Reviews, Physics, Botany.

NOTE a. Those studies printed in italics are elective.

NOTE b. The choice of a study, and change in the choice of a foreign language must be subject to the approval of the principal.

NOTE c. Composition, Declamation, Reading, Music and Military Instructions are required throughout the course.

NOTE d. Book-keeping is elective.

G.

REFORM SCHOOL REPORT FOR 1885.

Whole number instructed during the year	210
Males	177
Females	33
Attending school January 1, 1885	118
Admitted to school during the year	92
Discharged during the year	110
Attending school at present	98
Average monthly attendance	106
Greatest attendance for any one month (February)	120
Smallest attendance for any one month (December)	88
Pupils sent by the courts:—	
From Lowell	24
From other cities and towns	13
Committed for:—	
Truancy	28
Larceny	6
Vagrancy	1
Stubbornness	1
Average age on admission	10 years.

Twenty boys have been pardoned. One of them has been returned on a new sentence, and two have been sent back, as their parents were unable to provide for them.

The summer vacation was spent as usual in working on the farm, weeding and hoeing, on an average about six hours a day.

The boys have enjoyed excellent health during the year.

Religious services have been held every Sunday forenoon and afternoon, in the school-room.

Respectfully submitted.

FLORENCE J. O'DONOGHUE,

Teacher and Chaplain.

SUMMARY OF THE ANNUAL RETURNS

PUBLIC SCHOOLS OF THE CITY OF LOWELL.

SCHOOLS.	LOCATION.
No. pupils belonging, Dec. 19, 1885.	Whole No. of pupils on time-book since Jan. 1, 1885.
Males.	Males.
Females.	Females.
Total.	Total.
Average No. of pupils belonging to the schools.	Average daily attendance.
Males.	Males.
Females.	Females.
Total.	Total.
No. entered, not rec'd from any other public school.	No. having certificates of schooling, for mills.
Received from other public schools of lower grade.	Over fourteen years of age.
Received from same grade.	Between ten and fourteen years of age.
Sent to other public schools of higher grade.	Between six and ten years of age.
Sent to other public schools of same grade.	Under six years of age.
Percent. of attendance.	

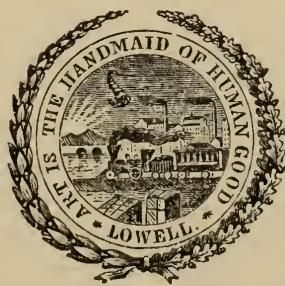
SUMMARY OF THE ANNUAL RETURNS OF THE PUBLIC SCHOOLS — (CONTINUED).

SCHOOLS.	LOCATION.	No. pupils belonging Dec. 19, 1885.			Whole No. of pupils on time-book, since Jan. 1, 1885.			Average No. of pupils belonging to the schools.			Average daily attendance.			No. entered, not rec'd from any other public school.	Received from other public schools of lower grades.	Received from other public schools of same grade.	Sent to other public schools of higher grade.	Sent to other public schools of same grade.	No. having certificates of schooling, for mills.	Over fourteen years of age.	Between ten and fourteen years of age.	Between six and ten years of age.	Under six years of age.	Per cent. of attendance.
		Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.														
Butler Sch. Dist.	Butler (Gram.)... <i>Primaries.</i>	171	166	337	244	235	479	165	169	334	153	148	301	22	102	25	13	14	60	78	368	33	0	90
	Lyon St.....	93	107	200	177	187	364	104	119	223	92	108	200	64	0	48	26	70	3	0	59	243	62	90
	Carter St.....	93	70	163	171	129	300	94	63	157	87	59	146	59	56	30	105	19	3	2	36	238	24	93
	Agawam St....	76	68	144	111	107	218	93	77	170	89	66	155	136	0	19	21	21	7	1	43	131	43	91
	London St.....	63	49	112	97	71	168	44	47	91	45	33	78	0	0	24	10	10	0	0	29	102	37	86
	Totals for Primaries.....	325	294	619	556	494	1050	335	306	641	313	266	579	259	56	121	162	110	13	3	167	714	166	90
Colburn Sch. Dist.	Colburn (Gram.)... <i>Primaries.</i>	148	130	278	217	200	417	150	142	292	138	128	266	27	74	18	11	13	50	74	302	41	0	91
	Central St.	176	163	339	263	254	517	195	190	385	177	166	343	154	0	72	52	69	10	0	78	340	99	89
	Ames St.	95	59	154	162	121	283	100	60	160	93	55	148	46	0	24	41	21	5	1	60	200	22	93
	Church St.....	52	40	92	88	70	158	45	36	81	41	32	73	66	20	17	34	15	0	0	33	98	27	90
	Totals for Primaries.....	323	262	585	513	445	958	340	286	626	311	253	564	266	20	113	127	105	15	1	171	638	148	91
	Edson (Gram.)... <i>Primaries.</i>	211	217	428	310	285	595	202	198	400	189	181	370	27	96	30	20	30	25	128	415	52	0	93
Edson Sch. Dist.	Cor. Elliott and Middlesex Sts.....	95	81	176	164	135	299	96	83	179	88	73	161	70	0	26	35	26	6	3	53	201	42	90
	Howard St.....	83	57	140	140	114	254	93	71	164	84	61	145	62	0	33	24	31	2	2	37	153	62	88
	Charles St.....	47	35	82	90	70	160	48	37	85	44	31	75	40	14	19	28	29	1	0	17	114	29	88
	Totals for Primaries.....	225	173	398	394	319	713	237	191	428	216	165	381	172	14	78	87	86	9	5	107	468	133	89

Green (Gram.)... <i>Primaries.</i>	Merrimack St.....	173	174	347	267	271	538	176	178	354	163	168	331	67	56	21	27	14	22	140	354	44	0	93
Mann	Cor. Broadway and Lewis St.....	107	80	187	223	165	388	101	83	184	88	71	159	100	0	49	38	24	5	4	81	213	90	87
Kirk St.	Cor. Kirk and Lee Sts.....	47	38	85	103	90	193	40	41	81	36	37	73	57	25	25	50	24	1	1	21	137	34	90
	Totals for Primaries.....	154	118	272	326	255	581	141	124	265	124	108	232	157	25	74	88	48	6	5	102	350	124	89
Highland (Gram.) <i>Primaries.</i>	West Pine St.	212	234	446	288	332	620	203	223	426	185	201	386	33	88	32	22	38	10	162	387	71	0	91
Franklin	Cor. Branch and Middlesex Sts.	75	82	157	138	142	280	74	76	150	66	67	133	72	0	51	24	39	0	2	33	221	24	89
Plain St.	Cor. Plain and Powell Sts.....	40	31	71	75	61	136	43	36	79	38	33	71	36	0	19	22	20	0	0	11	103	22	90
Dover St.	Dover St., near Grove.....	47	53	100	69	90	159	44	56	100	41	51	92	35	2	16	32	9	0	1	9	131	18	92
Powell St.	Powell St., near Liberty.....	51	51	102	76	78	154	47	44	91	42	39	81	32	0	27	17	16	0	0	19	105	30	89
Middlesex Vil.	Middlesex Village.....	12	20	32	17	33	50	15	21	36	13	18	31	7	0	3	6	8	0	0	12	27	11	86
	Totals for Primaries.....	225	237	462	375	404	779	223	233	456	200	208	408	182	2	116	101	92	0	3	84	587	105	89
Moody (Gram.)... <i>Primaries.</i>	Cor. High and East Merrimack Sts.	124	111	235	189	174	363	128	109	237	120	99	219	81	59	14	17	9	26	61	224	78	0	92
Pond St.	Cor. Pond and High Sts.....	56	48	104	77	71	148	48	48	96	44	42	86	32	0	15	23	8	0	0	11	114	23	90
High St.	High St., between Chestnut and Everett ..	41	41	82	78	72	150	40	40	80	37	37	74	30	0	17	22	11	1	0	13	127	10	93
Fayette St.	Fayette St., between Chestnut and Everett	25	13	38	59	35	94	23	14	37	20	14	34	87	0	7	4	9	2	0	12	57	25	90
	Totals for Primaries.....	122	102	224	214	178	392	111	102	213	101	93	194	149	0	39	49	28	3	0	36	298	58	91
Pawt'ket (Gram.) <i>Primaries.</i>	Mammoth Road (Pawtucketville).....	54	51	105	86	74	160	56	53	109	52	48	100	11	20	12	3	11	9	39	99	22	0	92
Mammoth Rd..	Mammoth Road (Pawtucketville).....	35	39	74	65	55	120	40	37	77	36	32	68	33	14	11	19	8	0	0	6	101	13	88
Varnum Ave..	Varnum Avenue (Pawtucketville).....	7	9	16	12	15	27	7	9	16	6	8	14	4	0	1	0	3	0	6	9	11	1	88
	Totals for Primaries.....	42	48	90	77	70	147	47	46	93	42	40	82	37	14	12	19	11	0	6	15	112	14	88
Varnum (Gram.)... <i>Primaries.</i>	Myrtle and Beach Sts. (Centralville).....	203	200	403	280	296	576	187	187	374	175	169	344	57	95	24	25	15	48	104	395	77	0	92
West Sixth St.	West Sixth St., near Coburn (Centralville).	90	88	178	171	129	300	106	73	179	97	66	163	77	0	27	48	42	10	0	59	217	24	91
Tenth St.	Cor. Tenth and Varnum Sts. (Centralville).	88	75	163	139	124	263	88	84	172	78	73	151	62	0	42	33	29	1	2	33	203	25	88
River St.	River St. (Centralville)	52	35	87	99	80	179	46	37	83	43	33	76	52	0	16	19	21	1	0	49	107	23	92
	Totals for Primaries.....	230	198	428	409	333	742	240	194	434	218	172	390	191	0	85	100	92	12	2	141	527	72	90
High School Grammar Schools... Primary Schools Mixed Schools.....	High School	185	185	370	275	274	549	206	200	406	196	191	387	7	127	0	0	0	0	523	26	0	0	95
	Grammar Schools.....	1494	1432	2926	2166	2092	4258	1463	1405	2868	1356	1276	2632	345	691	199	160	166	272	865	2845	548	0	92
	Primary Schools	1936	1638	3574	3437	2973	6410	1954	1674	3628	1781	1475	3256	1809	168	709	864	668	60	29	956	4373	1052	90
	Mixed Schools.....	19	29	48	29	48	77	22	30	52	19	26	45	11	0	4	6	11	0	6	21	38	12	87
	Totals.....	3634	3284	6918	5907	5387	11294	3645	3309	6954	3352	2968	6320	2172	986	912	1030	845	332	1423	3848	4959	1064	91

AUDITOR'S
FIFTIETH ANNUAL REPORT
OF THE
RECEIPTS AND EXPENDITURES
OF THE
CITY OF LOWELL, MASS.

TOGETHER WITH THE TREASURER'S ACCOUNT AND THE
ACCOUNT OF THE COMMISSIONERS OF SINKING
FUNDS, FOR THE FINANCIAL YEAR
ENDING DEC. 31, 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN COMMON COUNCIL, Jan. 19 1885

Read and sent to the Board of Aldermen.

DAVID CHASE,
Clerk.

IN BOARD OF ALDERMEN, Jan. 19, 1886,

Received and read.

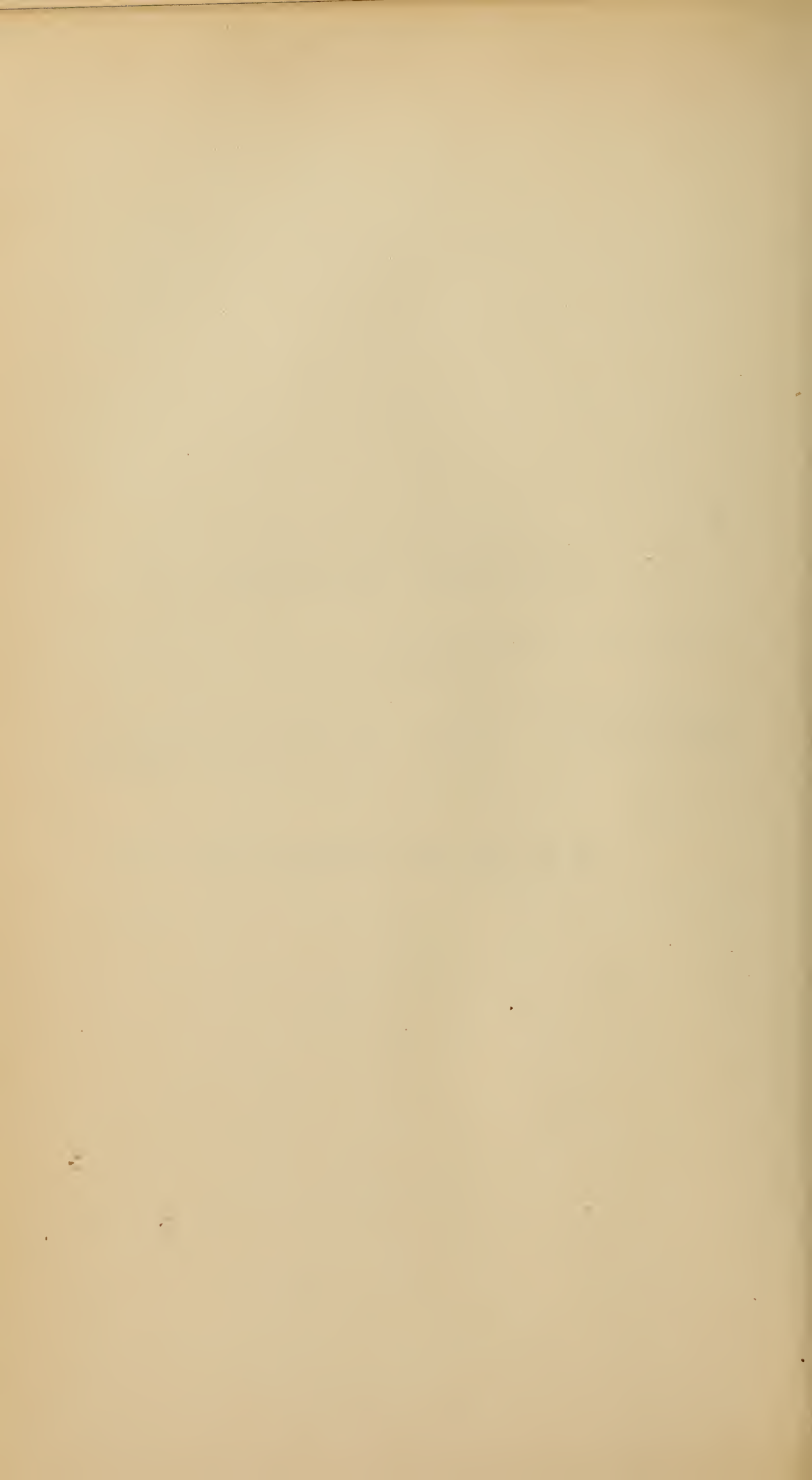
SAMUEL M. CHASE,
City Clerk.

AUDITOR'S REPORT

OF THE

RECEIPTS AND EXPENDITURES;

FOR THE YEAR ENDING DECEMBER 31, 1885.



AUDITOR'S REPORT.

CITY OF LOWELL,
AUDITOR'S OFFICE, Jan. 18, 1886.

TO THE CITY COUNCIL:

Gentlemen, — In conformity with the requirements of the Ordinances of the City, I have the honor to present the Fiftieth Annual Report of the Receipts and Expenditures of the City of Lowell for the financial year ending Dec. 31, 1885, exhibiting the same as classified in the Several Department Accounts, with a schedule of the Real and Personal property belonging to the City, and a statement of the City Debt and Debts due to the City.

RECEIPTS.

The whole amount of money received
into the Treasury from all sources,
from Jan. 1 to Dec. 31, 1885, was

\$1,831,505 51

Of this amount there was received on
account of:

Taxes of 1882.....	\$ 69 73 .
Taxes of 1883.....	6,445 53
<i>Amount carried forward.....</i>	<u>\$ 6,515 26</u>

<i>Amount brought forward</i>	\$	6,515	26
Taxes of 1884.....		57,198	51
Taxes of 1885.....		789,731	82
Schools.....		1,632	22
School-houses.....		20,421	88
Roads and Bridges.....		62,662	70
Reserved Fund.....		56,427	59
Paupers.....		10,226	42
Police.....		11,514	47
Fire Department.....		1,306	71
Sewers and Drains.....		29,478	13
Intercepting Sewer.....		700	19
Commons.....		310	80
Printing and Advertising.....		74	25
Lighting.....		76	33
Public Buildings.....		3,214	37
City Hall Building Lot.....		1,732	00
City Library.....		2,167	46
Health.....		3,711	38
Water Works.....		174,136	11
Taylor Street.....		30,389	69
State Aid.....		10,935	50
Aid for Indigent Soldiers and Sailors..		4,637	00
Interest.....		12,037	09
City Debt.....		30,000	00
National Bank Tax.....		3,985	61
Temporary Loans.....		450,000	00
Fund for Ordinary City Debt.....		56,282	02
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		\$1,831,505	51
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EXPENDITURES.

The amount expended and ordered to be paid from the Treasury, from Jan. 1, to Dec. 31, 1885 was.....

\$1,833,483 69

The expenditures are charged to the following Appropriations or Accounts:

Schools.....	\$	160,983	30
School-houses.....		34,720	49
Roads and Bridges.....		88,000	56
Reserved Fund.....		26,265	42
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<i>Amount carried forward</i>	\$	309,969	77

AUDITOR'S REPORT.

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<i>Amount brought forward</i>	\$309,969 77
Paupers	66,311 96
Police.....	67,015 41
Fire Department.....	69,629 76
Sewers and Drains.....	42,781 20
Intercepting Sewer.....	393 83
Commons.....	3,338 09
Printing and Avertising.....	2,782 44
Lighting	45,319 15
Public Buildings.....	7,465 47
City Hall Building Lot	1,364 92
City Library.....	13,203 45
Health.....	17,039 88
Water Works.....	176,972 56
Taylor Street.....	20,777 95
Salaries.....	17,990 04
State Aid.....	10,180 25
Aid for Indigent Soldiers and Sailors..	8,377 00
Interest.....	76,572 66
City Debt.....	147,850 00
National Bank Tax.....	24,957 34
State Tax.....	41,565 00
County Tax.....	37,730 53
Temporary Loans.....	450,000 00
Abatement of Taxes.....	317 58
Fund for Ordinary City Debt.....	93,677 45
Water Loan Sinking Fund.....	25,000 00
Sinking Fund for Loan of 1876.....	4,000 00
Sinking Fund for Loan of 1880.....	4,000 00
Sinking Fund for Loan of 1882.....	2,500 00
Sinking Fund for High Servive Water Supply	1,800 00
Sinking Fund for New Buildings at City Farm	5,000 00
City Hall Building Lot Sinking Fund..	7,000 00
Aiken Street Sinking Fund.....	16,000 00
Central Bridge Sinking Fund.....	9,600 00
Intercepting Sewer Fund.....	5,000 00
	<hr/>
	\$1,833,483 69
	<hr/>

The whole amount of expenditures during the year 1885 was.....\$1,833,483 69

The whole amount of receipts during the year 1885 was.....1,831,505 51

Excess of expenditures over receipts... \$1.978 18

The balance in the Treasury Jan. 1,
1885 was \$ 21,481 29

The amount received into the Treasury
during the year 1885 was 1,831,505 51

Making a total of \$1,852,986 80

The amount paid from the Treasury dur-
ing the year 1885 was 1,833,483 69

The balance in the Treasury Dec. 31,
1885 was \$19,503 11

CITY DEBT.

The amount of the City Debt Jan. 1,
1885 was \$3,301,100 00

The City Debt has been increased dur-
ing the year as follows :

By the amount of a note given to the
Lowell Institution for Savings,
dated Jan. 15, 1885, one tenth paya-
ble annually, with interest at the
rate of four per cent. per annum,
payable semi-annually \$30,000 00

By the amount of a note given to the
Commissioners of Sinking Funds,
dated July 24, 1885, payable one
tenth annually, with interest
at the rate of three and one-
half per cent per annum, payable
semi-annually 35,000 00

By the amount of a note given to the
Commissioners of Sinking Funds,
dated Sept. 19, 1885, payable one-
tenth annually, with interest at
the rate of three and one-half per
cent per annum, payable semi-an-
nually 20,000 00

By the amount of a note given to the
Commissioners of Sinking Funds,
dated September 19, 1885, payable
one-tenth annually, with interest at
the rate of three and one-half per
cent per annum, payable semi-
annually 15,000 00

By the amount of five notes given to
the Commissioners of Sinking
Funds, for \$3,000.00 each, dated

Amounts carried forward \$100,000 00 \$3,301,100 00

Amounts brought forward..... \$100,000 00 \$3,301,100 00

Dec. 3, 1885, one note payable annually, with interest at the rate of three and one half per cent. per annum, payable semi-annually.....

15,000 00

115,000 00

\$3,416,100 00

There have been paid on account of the City Debt during the year 1885, notes and bonds as follows :

To Perkins, Dupee & Co., seven Sewer Loan Bonds of one thousand dollars each, and one Sewer Loan Bond of five hundred dollars, which matured May 1, 1885.....

7,500 00

To Perkins, Dupee & Co., fifteen Intercepting Sewer Loan Bonds of one thousand dollars each, which matured June 20, 1885.....

15,000 00

To Commissioners of Sinking Funds an instalment on a note for sixteen thousand five hundred dollars, dated July 1, 1884, which matured July 1, 1885.....

1,650 00

To Lowell Institution for Savings, a note which matured July 1, 1885

10,000 00

To Commissioners of Sinking Funds, an instalment on a note for seventy-five thousand dollars, dated Aug. 4, 1884, which matured Aug. 4, 1885,

7,500 00

To City Institution for Savings, a note which matured Oct. 1, 1885.....

20,000 00

To Lowell Institution for Savings, a note which matured Nov. 1, 1885..

25,000 00

To Lowell Institution for Savings, a note which matured Nov. 1, 1885..

10,000 00

To Commissioners of Sinking Funds, a notewhich matured Nov. 1, 1885.

35,000 00

To Lowell Institution for Savings, an instalment on a note for eighty-five thousand dollars, dated Dec. 15, 1883, which matured Dec. 15, 1885

8,500 00

To Lowell Institution for Savings, an instalment on a note for seventy-seven thousand dollars, dated Dec.

Amounts carried forward..... \$140,150 00 \$3,416,100 00

<i>Amounts brought forward</i>	\$140,150 00	\$3,416,100 00
15, 1883, which matured Dec. 15, 1885.....	7,700 00	
		<u>147,850 00</u>
Total amount of City Debt, Jan. 1, 1886.....		<u>\$3,268,250 00</u>
Decrease in the City Debt during the year 1885, was.....		<u>\$32,850 00</u>
The amount of City Debt on account of Water Works, Jan. 1, 1885, was...	\$1,875,000 00	
The amount has been increased during the year by a note given the Lowell Institution for Savings.....	15,000 00	
	<u>\$1,890,000 00</u>	
The amount of the Sinking Funds for reduction of the same, Jan. 1, 1886, was.....	511,557 96	
Net Debt of the City on account of Water Works, Jan. 1, 1886.....		\$1,378,442 04
The amount of the Ordinary City Debt, Jan. 1, 1885 was.....	\$1,426,100 00	
This has been increased during the year 1885, by the amount of notes given	100,000 00	
	<u>\$1,526,100,00</u>	
This amount has been decreased dur- ing the year 1885, by the payment of notes and bonds as stated above	147,850 00	
Total Ordinary City Debt, Jan. 1, 1886.	\$1,378,250 00	
The amount of the Several Sinking Funds for the reduction of the same, Jan. 1, 1886, was.....	304,968 34	
Net Ordinary Debt of the City, Jan. 1, 1886		<u>\$1,073,281 66</u>
Total Net Debt of the City, Jan. 1, 1886		<u>\$2,451,723 70</u>

Total Net Debt of the City, Jan. 1, 1835	\$2,660,054 09
Total Net Debt of the City, Jan. 1, 1886	<u>2,451,723 70</u>
Decrease in the Net Debt of the City during the year 1885, was	<u><u>\$208,330 39</u></u>

Respectfully Submitted,

DAVID CHASE,

Auditor of Accounts.

Appropriations and Expenditures.

THE AMOUNT OF THE SEVERAL APPROPRIATIONS MADE BY THE CITY COUNCIL DURING THE YEAR — THE AMOUNT OF THE UNEXPENDED BALANCE OF 1884 — THE TRANSFERS FROM ONE APPROPRIATION TO ANOTHER — THE AMOUNT RECEIVED INTO THE TREASURY FROM ALL SOURCES — THE EXPENDITURES IN DETAIL UNDER EACH APPROPRIATION, AND THE UNDRAWN BALANCES, DEC. 31, 1885 — ALSO THE AMOUNT OF THE CITY DEBT — DEBTS DUE THE CITY — SCHEDULES OF REAL AND PERSONEL PROPERTY, ETC.

SCHOOLS.

Balance undrawn Jan. 1, 1885.....	\$ 2,856 12	
Appropriated and assessed in 1885....	150,000 00	
	<hr/>	\$152,856 12

RECEIPTS.

Received into the Treasury on account of SCHOOLS:

From Appropriation for Roads and Bridges, for coal.....	\$ 14 66	
Appropriation for Paupers, for wood, black board material, desks and chairs.....	192 00	
Appropriation for Police, for coal and wood.....	163 84	
Appropriation for Fire Department, for coal.....	311 68	
Appropriation for Lighting, for coal.	11 57	
Reserved Fund for coal.....	388 14	
Ernest Bassett, for tuition.....	20 00	
Mary Baker, for tuition	40 00	
Wallace P. Butterfield, for tuition,	40 00	
Charles W. Clark, for tuition...	40 00	
Arthur L. Foster, for tuition...	40 00	
Alfred H. Richardson, for tuition,	10 00	
Alice R. Sheldon, for tuition....	20 00	
Frank W. Thayer, for tuition...	40 00	
Charles M. Torsey, for tuition..	10 00	
Mary L. Varnum, for tuition...	10 00	
William Whelton, for tuition...	20 00	
Joseph Whelton, for tuition....	12 00	
Lottie M. Fernald, for overdraft,	60 00	
John Varney, for rent.....	10 66	
Prang Educational Co., for books,	93 54	
	<hr/>	
<i>Amounts carried forward.....</i>	<i>\$1,548 09</i>	<i>\$152,856 12</i>

Amounts brought forward..... \$1,584 09 \$152,856 12

Received into the Treasury on account of SCHOOLS:

From George A. Chase, for old desk and feather duster.....	3 50	
O. A. Richardson, for broken muskets.....	5 00	
Scannell and Wholey, for old boiler.....	50 00	
Fiske & Spalding, for black board material.....	3 00	
James L. Thompson, for black board material.....	3 50	
Michael Driscoll, for coal.....	9 18	
Edward Hussey, for coal.....	3 83	
Sewall E. Munsey, for coal.....	6 12	
		1,632 22
Transferred from Reserved Fund		6,494 96
		<u>\$160,983 30</u>

EXPENDITURES.

Paid SUPERINTENDENT OF PUBLIC SCHOOLS:

To George H. Conley, salary.....	\$2,500 00	
		\$2,500 00

Paid for INSTRUCTION:

HIGH SCHOOL.

To Frank F. Coburn, Principal.....	\$2,000 00	
Frank B. Sherburne.....	1,800 00	
Mary A. Webster.....	800 00	
Elizabeth McDaniels.....	700 00	
Harriet C. Hovey.....	700 00	
Charlotte E. Draper.....	700 00	
Alice J. Chase.....	700 00	
Mary E. Stevens.....	630 25	
Susie L. D. Watson.....	630 25	
Adelaide Baker.....	540 75	
Jennie D. Allen.....	433 00	
<i>Amounts carried forward</i>	\$9,634 25	\$2,500 00

SCHOOLS.

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Amounts brought forward..... \$9,634 25 \$2,500 00

Paid for INSTRUCTION :

HIGH SCHOOL.

To M. Jennie Keese.....	280 00	
Bertha A. Baron.....	38 75	
Josephine L. Fiske.....	26 25	
Alvin A. Hanscom, Military In-		
structor	175 00	
	<hr/>	10,154 25

BARTLETT SCHOOL.

To Samuel Bement, Principal.....	\$1,691 50	
Belle A. Prescott.....	600 00	
M. Ida Howe.....	600 00	
Frances M. Talbot.....	600 00	
Lola Cheney.....	600 00	
Amy L. Tucke.....	600 00	
Marianne B. Kent.....	578 13	
Abbie E. French.....	540 62	
Belle F. Batchelder.....	540 00	
Mary A. Morse.....	42 49	
Genevra M. Dunn.....	13 12	
E. Louie Brown.....	3 75	
	<hr/>	6,409 61

BUTLER SCHOOL.

To Cornelius F. Callahan, Principal....	\$1,700 00	
Frances M. Webster.....	600 00	
Laura F. Howe.....	600 00	
Nellie Keefe.....	600 00	
Nellie F. Murphy.....	600 00	
Carrie A. Miles.....	600 00	
Delia T. Brady.....	600 00	
Katie E. Kelley.....	530 00	
Mary L. McSorley.....	240 00	
	<hr/>	6,070 00

COLBURN SCHOOL.

To George W. Howe, Principal.....	\$1,700 00	
Susan M. Andrews.....	600 00	
Mary A. Hammill.....	600 00	
Arvilla L. Reader.....	600 00	
Elizabeth W. Frost.....	594 38	
Kate G. McLaughlin.....	588 75	
Sarah J. Crosby.....	466 01	
	<hr/>	
<i>Amounts carried forward</i>	\$5,149 14	\$25,133 86

Amounts brought forward..... \$5,149 14 \$25,133 86

Paid for INSTRUCTION:

COLBURN SCHOOL.

To Elizabeth A. Balch.....	240 00	
Mary A. Lynch.....	44 36	
Annie M. Lee.....	22 50	
Mary Fay.....	8 75	
	<hr/>	5,464 75

EDSON SBHOOOL.

To Calvin W. Burbank, Principal.....	\$1,700 00	
Mary E. Stone.....	600 00	
Maria C. R. Swan.....	600 00	
Mary F. Carleton.....	600 00	
Mary A. Balch.....	600 00	
Rosalie T. Burns.....	600 00	
Kate F. Hayes.....	598 75	
Nettie E. Carleton.....	595 00	
Anna A. Sargent.....	570 63	
Fannie A. Scripture.....	551 50	
Lizzie N. Smith.....	461 10	
Carrie Stone.....	60 00	
Minnie Owens.....	30 62	
Edith L. Monroe.....	20 00	
Blanche E. Fay.....	5 00	
	<hr/>	7,592 60

GREEN SCHOOL

To Albert L. Bacheller, Principal.....	\$1,700 00	
Ruth B. Bailey.....	600 00	
Annie E. Richardson.....	600 00	
Lizzie A. Nolan.....	600 00	
Clara A. Hanaford.....	600 00	
Lena A. Gookin.....	600 00	
Ella J. Carleton.....	600 00	
Kate F. Cassidy.....	540 00	
Lulie A. Huntoon.....	300 00	
Mary J. Murphy.....	185 63	
	<hr/>	6,325 63

HIGHLAND SCHOOL.

To Charles W. Morey, Principal.....	\$1,700 00	
Alice M. Clark.....	600 00	
Abbie F. Woodward.....	600 00	
Luella A. Wardwell.....	600 00	
Fannie M. Clark.....	600 00	
	<hr/>	
<i>Amounts carried forward</i>	\$4,100 00	\$44,516 84

Amounts brought forward..... \$4,100 00 \$44,516 84

Paid for INSTRUCTION:

HIGHLAND SCHOOL.

To Hattie B. Frye.....	600 00	
Mary J. Gerry.....	470 00	
Addie F. Bennett.....	399 00	
Mary F. Burnham.....	360 00	
Emma G. French.....	343 75	
Estelle S. Whitney.....	290 00	
Edith L. Monroe.....	71 88	
Fannie B. Edwards.....	53 76	
Bertha Gardner.....	16 25	
	<hr/>	6,704 64

MOODY SCHOOL.

To William S. Greene, Principal.....	\$1,700 00	
Alice M. Sanborn.....	600 00	
Laura J. Pindar.....	600 00	
Frances E. Hardman.....	600 00	
Frances E. Garity.....	600 00	
Mary E. Way.....	558 12	
Carrie F. Smith.....	533 75	
Clara A. Eaton.....	402 49	
Hattie S. Simpson.....	102 52	
Annie M. Goulding.....	11 87	
Hattie A. Palmer.....	6 25	
	<hr/>	5,715 00

PAWTUCKET SCHOOL.

To Oliver C. Semple, Principal.....	\$1,020 00	
Cyrus W. Irish, Principal.....	310 00	
James D. Horne.....	49 50	
Nellie McDonald.....	600 00	
Celestia P. Chase.....	600 00	
Julia M. Healey.....	600 00	
	<hr/>	3,179 50

VARNUM SCHOOL.

To Arthur K. Whitcomb, Principal....	\$1,700 00	
Georgiana F. Vinton.....	600 00	
Harriet Bradley.....	600 00	
Minnie F. Wing.....	600 00	
Sarah A. Bradley.....	600 00	
Alice R. Keese.....	600 00	
Maria W. Roberts.....	600 00	
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<i>Amounts carried forward</i>	\$5,300 00	\$60,115 98

Amounts brought forward..... \$5,300 00 \$60,115 98

Paid for INSTRUCTION:

VARNUM SCHOOL.

To Ada Martin.....	600 00	
Rosa A. Dowd.....	470 00	
	<hr/>	6,370 00

TEACHER OF PENMANSHIP AND DRAWING.

To Thomas M. Graves.....	\$1,120 00	
	<hr/>	1,120 00

TEACHER OF DRAWING.

To Henry T. Bailey.....	\$ 400 00	
	<hr/>	400 00

TEACHER OF VOCAL MUSIC.

To George F. Willey.....	\$ 720 00	
	<hr/>	720 00

MIXED SCHOOLS.

To Elizabeth A. Cotting.....	\$ 600 00	
Laura J. Gould.....	490 50	
Jennie Jewett.....	53 75	
	<hr/>	1,144 25

PRIMARY SCHOOLS.

To Mercena F. Whitehorn.....	\$ 600 00	
Annie S. Harlow.....	600 00	
Laura H. Palmer.....	600 00	
Lucy F. Carleton.....	600 00	
Ellen A. Stillings.....	600 00	
Winifred Haggerty.....	470 00	
Katie E. McOwen.....	600 00	
Abbie V. Wheeler.....	600 00	
Martha A. Neal.....	600 00	
Isabella V. McAnulty.....	600 00	
Minnie C. Smith.....	600 00	
Cornelia M. Davis.....	600 00	
Georgie A. Harnden.....	94 36	
Marietta Hill.....	600 00	
Marietta McEvoy.....	596 87	
Hattie A. Palmer.....	11 88	
Nellie Kohawn.....	600 00	
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<i>Amounts carried forward</i>	\$8,973 11	\$69,870 23
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Amounts brought forward..... \$8,973 11 \$69,870 23

Paid for INSTRUCTION,

PRIMARY SCHOOLS.

To Sarah C. Fiske.....	\$600 00
Eliza Cowley.....	600 00
Alice T. Owens.....	600 00
Mary L. McSorley.....	360 00
Hattie A. Knowles.....	595 63
Kate T. McCarthy.....	153 74
Katherine T. Lennon.....	240 62
Ella E. Gardner.....	600 00
Ellen A. Corbett.....	600 00
Ellen A. Bridge.....	600 00
Aurelia L. Howe.....	600 00
Charlotte E. Brown.....	600 00
Mary E. Drew.....	600 00
Katie T. Murphy.....	94 37
Annie M. Lee.....	93 13
Marion E. Green.....	470 00
Hattie Wakefield.....	15 62
Marietta F. Crowley.....	600 00
Nellie T. O'Grady.....	600 00
Laura E. Lee.....	600 00
Ellen F. Coughlan.....	600 00
Amanda M. Hadley.....	600 00
Lizzie S. Lowe.....	591 25
Clara A. Emerson.....	600 00
Mary A. Beard.....	443 00
Lizzie F. Brennan.....	77 50
Nellie T. Gilday.....	62 51
Lizzie R. Kennedy.....	470 00
Lottie M. Fernald.....	607 50
Abby L. Sargent.....	600 00
Sarah E. Scales.....	600 00
Lilla J. Greenhalge.....	600 00
Lizzie M. Hadley.....	600 00
Nellie M. Brown.....	600 00
Mary L. Hill.....	600 00
Ellen M. White.....	593 75
Ella A. Bailey.....	600 00
Mary F. Beane.....	600 00
Eliza A. Davis.....	600 00
Sara R. Swan.....	600 00
Marion J. Stevenson.....	590 63
Mary J. Alger.....	600 00
Lucretia A. Day.....	588 62

Amounts carried forward..... \$30,620 98 \$69,870 23

Amounts brought forward..... \$30,620 98\$ 69,870 23

Paid for INSTRUCTION:

PRIMARY SCHOOLS.

To Charlotte McDaniels.....	579 00	
Carrie Stone.....	79 37	
Blanche E. Fay.....	94 36	
Maggie A. Harrihan.....	600 00	
Jennie M. Bennett.....	322 49	
Stella J. Allen.....	600 00	
Elizabeth A. Balch.....	360 00	
Belle T. Vinal.....	600 00	
Ellen M. Holden.....	600 00	
Rose J. Delaney.....	243 73	
Alice T. Lee.....	600 00	
Addie L. Richardson.....	470 00	
Ella E. Bradley.....	600 00	
Clara B. Horne.	600 00	
Lizzie R. Murphy.....	270 00	
M. Carrie Stiles.....	600 00	
Minnie A. Wilson.....	63 74	
Katie F. Fay.....	600 00	
Clementine H. Bowers.....	600 00	
Bertha Gardner.....	113 12	
Mary McLaughlin.....	600 00	
Lizzie R. Maguire.....	470 00	
Mary A. Lynch.....	94 36	
Minnie Owens.....	56 87	
Mary J. McCarry.....	600 00	
Bridget T. Maguire.....	600 00	
Mary J. Meade.....	600 00	
Nellie A. Hunt.....	470 00	
Martha A. Franklin.....	600 00	
Katie G. Jones.....	600 00	
Ida J. Flint.....	600 00	
Helen J. Gookin.....	161 88	
Carrie J. Bailey.....	381 51	
Nellie Coburn.....	66 87	
Viola A. Hamblett.....	600 00	
Flora H. Sprague.....	600 00	
Minnie B. Chase.....	334 50	
Margie F. Marren.....	10 00	
Mary B. McGovern.....	149 37	
Kate J. Lawler.....	329 37	
		47.141 52
<i>Amount carried forward</i>		\$117,011 75

Amount brought forward..... \$117,011 75

Paid for SERVICES OF TRUANT
OFFICERS:

To William H. Bermingham.....	\$750 00	
Bickford Lang.....	750 00	
James Owens.....	375 00	
J. F. Williams.....	375 00	
	<hr/>	2,250 00

Paid for BOOKS:

To F. M. Ambrose.....	\$29 70	
Warren P. Adams.....	37 50	
Boston School Supply Co.....	512 65	
Cowperthwait & Co.....	282 89	
Clark & Maynard.....	81 00	
T. W. Gilson.....	3 88	
Ginn, Heath & Co.....	6 25	
Ginn & Co.....	249 35	
Harris, Rogers & Co.....	5 40	
Harrison Hume.....	1,424 45	
Houghton, Mifflin & Co.....	6 46	
Iverson, Blakeman, Taylor & Co....	226 26	
Leach, Shewell & Sanborn.....	46 00	
Lee & Shepard.....	446 01	
Marston & Prince.....	5 00	
Henry C. Nash.....	6 00	
Frank R. Rix.....	12 00	
J. R. Spaulding & Co.....	30 00	
Thompson, Brown & Co.....	312 60	
Van Antwerp, Bragg & Co.....	51 04	
William Ware & Co.....	1,433 29	
Charles H. Whiting.....	20 00	
A. Whitney.....	9 75	
	<hr/>	5,237 48

Paid for BLANK-BOOKS, STA-
TIONERY, PRINTING, AD-
VERTISING, ETC.:

To Bacheller, Dumas & Co., for binding, lettering, etc.....	\$ 296 75
James R. Bailey, for envelopes and paper.....	48 80
H. H. Carter, for ink.....	33 25
Thomas Carroll, for ink and bottles,	3 50

<i>Amounts carried forward</i>	<hr/>	<hr/>	\$382 30	\$124,499 23
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Amounts brought forward..... \$ 382 30 \$124,499 23

Paid for BLANK BOOKS, STA-
TIONERY, PRINTING, AD-
VERTISING, ETC.:

To Coughlin & Co., for slates, pencils, pens, ink, erasers, seal, etc....	\$150 03
Coughlin Elastic Blotter Co., for erasers	48 87
F. P. Coggeshall, for envelopes....	1 55
H. C. Church & Son, for Paper, rub- ber bands, ink, inkstands, etc.	59 57
Carter, Rice & Co., for paper.....	123 00
J. W. C Gilman & Co., for writing books	503 21
J. L. Hammett, for paper, mats, etc.	75 07
Holden Book Cover Co., for book covers	59 88
George F. King & Merrill, for blot- ting paper and pens.....	46 14
J. Merrill & Son, for paper.....	31 20
Prang Educational Co., for drawing books, pencils, etc.....	924 82
George S. Perry, for slates, ink, globes, etc.....	755 24
Schlicht & Field, for letter-file....	2 65
Troy Rubber Stamp Works for stamp	3 50
W. H. Worcester, for subscription,	9 00
Butterfield & Co., for printing....	6 50
Bailey Bros., for printing.....	5 00
J. J. Bancroft, Jr., for printing...	4 30
Citizen Newspaper Co., for print- ing and advertising.....	248 30
Campbell & Hanscom, for printing and advertising.....	57 67
Evening Democrat, for advertis- ing	9 90
Franklin Printing Office, for print- ing.....	26 75
Harris & Rogers, for printing....	24 00
Harrington Bros., for printing and binding	668 40
F. E. Johnson for printing,.....	6 75
Lowell Weekly Sun, for advertising,	12 00
Oliver A. Libby, for printing.....	29 30

Amounts carried forward..... \$4,274 90 \$124,499 23

SCHOOLS.

25

Amounts brought forward..... \$4,274 90 \$124,499 23

Paid for BLANK-BOOKS, STATIONERY, PRINTING, ADVERTISING, ETC.:

To Marden & Rowell, for printing and advertising.....	158 87	
Morning Mail Co., for printing and advertising.....	27 00	
Vox Populi Press, for printing and advertising.....	123 75	
Vox Populi Office, for printing and advertising.....	65 00	
W. S. Simons, for posting.....	3 00	
	<hr/>	4,652 52

Paid for FUEL:

To Appropriation for Roads and Bridges for labor.....	\$ 869 27	
Appropriation for Paupers, for fuel, Lewis S. Adams, for coal.....	144 00	
Brown Lumber Co., for wood.....	6 50	
W. T. Griffin, for wood.....	84 00	
D. W. Horne & Son, for coal.....	20 00	
William Kittredge, for coal and wood	6 50	
William E. Livingston, for coal...	37 59	
	5,802 29	
	<hr/>	6,970 15

Paid for SUNDRIES:

To Appropriation for School-houses, for desks, table, lumber, and labor.....	\$ 233 95
Appropriation for Roads and Bridges, for labor.....	134 96
Appropriation for Paupers, for lumber and shellac.....	2 89
Appropriation for Public Buildings, for paint and labor.....	1,124 19
Appropriation for Water Works, for water.....	1,453 50
Appropriation for Water Works, for repairing meters, pipe, fitting and labor.....	72 04
Lowell Gas Light Co., for gas.....	91 42
Otis Allen & Son, for boxes.....	14 25

Amounts carried forward..... \$3,127 20 \$136,121 90

Amounts brought forward..... \$3,127 20 \$136,121 90

Paid for SUNDRIES:

To A. L. Brooks & Co., for lumber....	134 85
A. Bachelder & Co., for oak rounds,	62
Badger & Holmes, for lumber and	
labor.....	4 00
Davis & Sargent, for lumber....	6 24
S. W. Fletcher, for doors.....	8 00
J. E. Griffin, for repairing pumps,	6 00
A. Keddie, for turning pins.....	9 75
Amasa Pratt & Co., for lumber and	
labor.....	50 18
J. G. Peabody & Sons, for lumber,	60
Charles E. Adams, for hardware	
and tools.....	1 43
F. W. Bennett, for shovels.....	2 00
John C. Bennett, for hardware....	4 58
Bartlett & Dow, for hardware....	2 29
Rice & Co., for wire cloth.....	1 25
H. B. Shuttuck, for hardware, hose,	
etc.....	91 07
Frederic Taylor & Co., for hard-	
ware, etc.....	80 95
Milton Aldrich, for clamp screws,	90
O. E. Averill, for blacksmithing,	5 50
H. R. Barker, for pipes, valves, fit-	
tings, packing, labor, etc.....	311 90
T. Costello & Co., for ash hods,	
mica, tin, labor, etc.....	68 50
Cole & Nichols, for castings.....	13 05
L. A. Derby & Co., for wire, zines,	
battery, labor, etc.....	20 03
Richard Dobbins, for repairing and	
inspecting boilers, boiler, cast-	
ings, etc.....	345 09
Farrell & Conaton, for pipe, fittings,	
and labor.....	22 71
T. R. Garity & So., for radiator,	
pipe fittings, and labor.....	185 74
John Gilchrist, for pipe fittings and	
labor.....	50 04
M. J. Hennessey, for wire, chain,	
solder, labor, etc.....	42 05
H. S. Ingalls, for tube-cleaners....	8 25
S. G. Mack & Co., for pipe, lan-	
tern, dippers, shovels, repair-	
ing stoves, etc.....	117 00

Amounts carried forward..... \$4,721 77 \$136,121 90

Amounts brought forward..... \$4,721 77 \$136,121 90

Paid for SUNDRIES:

To Noyes Manufacturing Co., for gas regulators.....	150 00
M. O'Flahavan & Co., for ash hods,	7 50
F. W. Proctor, for valves, fittings and labor.....	8 74
Pevey Bros, for castings and labor,	76 00
A. Parsons, for repairing furnace,	1 00
Jerry Ryan, for dustpans.....	3 00
Scannell & Wholey, for castings and labor.....	11 40
Union Iron Foundry Co., for castings.....	59 49
Wallingford & Callaghan, for ash barrels, labor, etc.....	78 20
H H. Wilder & Co., for stove, pipe, zinc, repairing stoves, etc.....	94 01
N. J. Wier & Co., for repairing stoves	9 11
C. Zimmer, for keys and repairing lock.....	1 00
Adams & Co., for chairs, carpet and labor.....	30 10
Benner Bros., for curtains, oil-cloth, binding, chair, labor, etc.....	19 68
A & E. Burton & Co., for dusters.	105 16
Bendon and Handley, for awning.	6 00
Rose A. Jordan, for ribbon.....	13 23
J. L. Loiselle, for cambric.....	2 40
Murphy, Leavens & Co., for brushes,	50 40
Offutt & Whitaker, for carpet, matting and labor.....	32 42
J. F. Puffer & Son, for chairs....	5 50
Shea & McOsker, for brackets and labor	55 93
Shea & Lee, for rollers, shades and labor	382 30
Shorey Spring Bed and Shade Roller Co, for shade roller..	40
Sherman & Manning, for mats and fenders	69 45
Society of First Congregational Church, for book case.....	7 00
John Welch, for book cases and desk.	157 00

Amounts carried forward..... \$6,158 19 \$136,121 90

Amounts brought forward \$6,158 19 \$136,121 90

Paid for SUNDRIES:

To F. & E. Bailey & Co., for drugs and chemicals	38 59
Carleton & Hovey, for drugs, chemicals and tubes	21 91
C. B. Coburn & Co., for shellac, alcohol, ammonia, oil, paint, brooms, etc.	280 23
Fiske & Spalding, for paper, shades and fixtures	64 12
French & Puffer, for tumblers, nappies, mats, pails, brushes, etc.	28 28
I. K. Goodale, for candles	20
Paul A. Garey, for modelling clay,	6 75
Jonathan Kendall & Co., for shellac, paint twine, brushes, etc.	6 26
C. W. Lerner & Co., for disinfectant and deturgent	25 00
W. E. Livingston, for cement	6 00
E. A. McQuade, for soap and brush,	1 67
A. McSorley, for soap and stove polish	1 44
Nichols & Fletcher, for salt	41
O. B. Ranlett, for soap	4 50
C. P. Talbot & Co., for oxalic acid and ammonia	2 58
Talbot Dyewood & Chemical Co., for muriatic acid and oil vitriol	12 22
J. Whitty, for soap	50
Whithed & Co., for cement, brick and lime	47 05
James Smith, for mason work and material	34 75
Staples Bros., for cement and labor,	6 44
H. B. & H. M. Bacon, for Carney medals, badges, medals, clocks, rings, etc.	83 00
R. S. Clifford, for clock and cleaning clocks	20 00
Cluin & Allen, for clock and repairing clock	2 25
J. J. Cluin, for clocks, and repairing clocks	25 00
James T. Murray, for repairing clocks	3 00

Amounts carried forward \$6,880 34 \$136,121 90

Amounts brought forward..... \$6,880 34\$ 136,121 90

Paid for SUNDRIES :

To George Thatcher, for bell angles and repairing clocks.....	4 50
Charles T. Haskell, for cleaning clocks.....	7 75
George Frost & Co., for pencil sharpeners.....	44 00
Irvin A. Foote, for tuning and labor on pianos.....	42 00
Alfred P. Gage, for chemical apparatus, etc.....	28 75
Thomas Hall, for chemical apparatus, microscopes, etc.....	66 45
Alvin A. Hanscom, for cash paid for repairing rifles.....	75
Merrimack Croquet Co., for wooden balls, wire and labor.....	43 75
Owen Bros., for belt hook and repairing drum.....	5 90
O. A. Richardson, for numbering muskets.....	1 50
William Read & Son, for rifles, cases and carting.....	353 75
Estate of Charles E. Austin, for rent of piano.....	6 00
Germania Band, for services....	74 60
Lowell Cornet Band, for services,	42 00
Merrimack House, for entertainment of committee and visitors.....	30 25
S. C. Smiley, for lemonade.....	11 25
E. Sheppard & Sons, for flowers and use of plants.....	25 00
Ellen D. Carney, for services at exhibition of drawings.....	6 30
Mary E. Cushing, for services at exhibition of drawings.....	31 15
To Willard M. Foster, for services at exhibition of drawings....	6 00
Fred W. Farnham, for services at exhibition of drawings, cash paid for hammers, tacks, etc.,	10 05
T. M. Graves, for filling in High School diplomas and cash paid for teaming.....	16 75

Amounts carried forward..... \$ 7,738 79\$ 136,121 90

Amounts brought forward..... \$ 7,738 79 \$136,121 00

Paid for SUNDRIES:

To Martha A. Neal, for cash paid for ruling slates.....	1 25
E. W. Coburn, for black board material, labor, etc.....	65 15
A. G. Whitcomb, for ink wells, ink cans and seats.....	49 25
William H. Bermingham, for cash paid for corks, boxes, repairing pencil sharpeners and traveling expenses.....	16 91
George H. Conley, for cash paid for Carney medals, postage, expressing, traveling expenses and expenses of committee....	97 25
J. J. Cluin, for cash paid for expenses to Boston.....	2 50
John A. Smith, for cash paid T. W. Higginson, traveling expenses, etc	12 25
John H. McNabb, for care of drill hall and cleaning muskets....	16 00
F. E. Worthley, for care of drill hall and cleaning muskets....	24 00
M. V. B. Hilliard, for ringing bell,	30 00
George A. Philbrick, for ringing bell	30 00
Antoine Caza, for services as interpreter.....	3 00
John J. Danahy, for taking and recording census of school children	116 43
John J. Donahue, for taking and recording census of school children.....	88 95
Matthew H. Gilroy, for taking and recording census of school children.....	123 72
James S. Russell, for labor on examination papers.....	10 00
John E. Maguire, for distributing reports.....	27 50
Town of Chelmsford, for tuition of Margaret Gillick, Beatrice Lefevre, and Herber Lefevre... ..	23 10

Amounts carried forward..... \$ 8,476 05 \$136,121 90

Amounts brought forward..... \$8,476 05 \$136,121 90

Paid for SUNDRIES :

To Town of Dracut, for tuition of George De Rycke, Arthur De Rycke, and Mary Howard....	28 00
Berean Mission Committee, for rent of room.....	45 00
Primitive Methodist Trustees, for rent of room.....	235 00
Baltimore & Ohio Telegraph Co., for telegram.....	33
Western Union Telegraph Co., for telegram.....	43
James Critchett, for removing night soil... ..	6 00
Thomas F. Fay, for removing night soil.....	98 00
L. T. Montferand, for watering street.....	4 00
O. Bartlett, for teaming.....	3 75
Charles Clapp, for teaming.....	4 50
D. E. Griffin, for teaming.....	50
John Harrington, for teaming....	4 00
John Hanley, for teaming.....	50
Charles F. Keyes, for carriage hire	24 00
Timothy Kelley, for teaming.....	50
D. P. Knowlton, for teaming.....	50
James Leach, for teaming.....	1 75
Bickford Lang, for use of horse and carriage.....	100 00
Daniel McCarthy, for teaming....	2 50
Alphohso Merrill, for teaming....	11 75
McDonald & Mason, for teaming..	8 60
E. H. Morse, for carriage hire....	22 00
G. W. Norris, for carriage hire....	1 50
J. L. Noyes & Son, for carriage, hire,.....	6 00
James Nixon, for teaming.....	2 50
Oliver Pepin, for teaming.....	7 00
William Roberts, for teaming....	2 00
John Regan, for teaming.....	1 00
George E. Stanley, for transporta- tion	13 16
Samuel Tompkins, for teaming...	1 50
Lovejoy-Paul Express, for trans- portation.....	8 20

Amounts carried forward..... \$9,120 52 \$136,121 90

<i>Amounts brought forward</i>	\$9,120 52	\$136,121 90
To U. S. & C. Express, for transportation	43 05	
	<hr/>	\$9,163 57

EVENING SCHOOLS.

Paid SUPERVISOR OF EVENING SCHOOLS:

To John A. Smith, salary.....	\$120 00	
	<hr/>	120 00

Paid for INSTRUCTION:

HIGH SCHOOL.

To James D. Horne.....	\$360 00	
Avila Bourbonniere.....	110 00	
Frank F. Coburn.....	114 00	
John B. Delaney.....	112 00	
Thomas M. Graves.....	185 50	
Robert J. Mansfield.....	68 00	
George W. Poore.....	187 50	
Julian Whiteside	112 00	
F. N. Wier	112 00	
F. Wood.....	96 00	
Nellie T. Gilday.....	142 50	
Mary E. Stevens.....	51 00	
Susie L. D. Watson.....	51 00	
	<hr/>	1,701 50

BARTLETT SCHOOL.

To Joseph H. Guillet.....	\$154 00	
Louie E. Brown.....	93 75	
Nellie A. Coburn.....	41 25	
Agnes L. Donahue.....	52 50	
Rebecca Gill.....	41 25	
Annie C. Gill.....	41 25	
Sarah V. Girard.....	52 50	
Sarah Labarge.....	93 75	
Nellie Miller.....	98 75	
D. Emily Ross.....	77 50	
Azilda Trinque.....	65 00	
Minnie A. Wilson.....	52 50	
	<hr/>	864 00

BUTLER SCHOOL.

To Daniel J. Donahue	\$ 4 00	
Michael J. Dowd.....	156 00	
Anastasia Corbett.....	52 50	
	<hr/>	
<i>Amounts carried forward</i>	\$ 212 50	\$147,970 97

SCHOOLS.

33

Amounts brought forward \$ 212 50 \$147,970 97

EVENING SCHOOLS.

Paid for INSTRUCTION:

BUTLER SCHOOL.

To	Rose J. Delaney	95 00	
	Blanche E. Fay	42 50	
	Mary A. Fay	95 00	
	Mary E. Lynch	42 50	
	Annie M. Lee	42 50	
	Albertie Lane	52 50	
	Katie T. Murphy	95 00	
	Mary B. McGovern	95 00	
	Minnie Owens	52 50	
	Bertha M. Rowlandson	52 50	
	Carrie Stone	6 25	
			883 75

COLBURN SCHOOL.

To	Stephen G. Bailey	\$160 00	
	Mabel Derby	36 25	
	Blanche E. Fay	15 00	
	Annie M. Goulding	42 50	
	Lizzie A. Hart	12 50	
	Georgie A. Harnden	52 50	
	Jennie B. Holt	51 25	
	M. Elizabeth Ham	95 00	
	Kate J. Lawler	42 50	
	Annie M. Lee	57 50	
	Hattie A. Palmer	65 00	
	Ellen W. Parsons	51 25	
	Juann Wadleigh	42 50	
			723 75

FRANKLIN SCHOOL.

To	Thomas Manning	\$ 36 00	
	Nellie A. Coburn	57 50	
	Ida J. Clark	50 00	
	Fannie B. Edwards	52 50	
	Ella F. Floyd	52 50	
	Helen J. Gookin	146 50	
	Georgie A. Harnden	42 50	
	Lizzie F. Lamere	95 00	
	Minnie Owens	21 25	
	Carrie Stone	18 75	
	Estelle L. Whitney	42 50	615 00
	<i>Amount carried forward</i>		\$150,193 47

Amount brought forward..... \$150,193 47

EVENING SCHOOLS.

Paid for INSTRUCTION :

GREEN SCHOOL.

To Charles A. Gilday.....	\$160 00	
Lizzie F. Brennan.....	100 00	
Annie Courtney.....	95 00	
Mary A. Farnham.....	95 00	
Katie A. Keyes.....	95 00	
Katie F. McCarty.....	95 00	
Mary A. Morse.....	91 25	
Margie Marren.....	52 50	
Addie L. Richardson.....	1 25	
Julia Williams.....	95 00	
	<hr/>	880 00

MANN SCHOOL.

To Gertrude Sheldon.....	\$ 68 00	
Ida E. Bisbee.....	42 50	
Jennie M. Bennett.....	41 25	
Genevra M. Dunn.....	42 50	
Mary J. Murphy.....	41 25	
Kate Symonds.....	42 50	
Edith F. Walker.....	12 50	
	<hr/>	290 50

MOODY SCHOOL.

To Josephine L. Fiske.....	\$160 00	
Alice B. Besse.....	12 50	
Carrie E. Erskine.....	96 25	
Carrie M. Hart.....	47 50	
Abbie A. Hayward.....	37 50	
Edith L. Monroe.....	52 50	
Isabella A. Perkins.....	17 25	
Mary E. Smith.....	95 00	
Carrie Stone.....	27 50	
	<hr/>	546 00

VARNUM SCHOOL.

To William P. Barry.....	\$162 00	
Sarah A. Byrne.....	85 00	
Minnie I. Coggeshall.....	15 00	
Agnes T. Fay.....	3 75	
Bertha Gardner.....	95 00	
Katherine T. Lennon.....	42 50	
Minnie Packard.....	80 00	
	<hr/>	
<i>Amounts carried forward</i>	\$483 25	\$151,909 97

SCHOOLS.

35

Amounts brought forward..... \$ 483 25 \$151,909 97

EVENING SCHOOLS.

Paid for INSTRUCTION :

VARNUM SCHOOL.

To Lizzie A. Robertson.....	100 00	
Hattie S. Simpson.....	47 50	
	<hr/>	630 75

WORTHEN STREET SCHOOL.

To Gertrude Sheldon.....	\$ 92 00	
Ida E. Bisbee.....	52 50	
Genevra M. Dunn.....	21 25	
Elizabeth A. Hart.....	52 50	
Mary J. Murphy.....	52 50	
Annie I. Rodliff.....	51 25	
Kate Symonds.....	57 50	
	<hr/>	379 50

Paid for SERVICES OF JAN-
ITORS :

To Thomas F. Barry.....	\$ 80 00	
Edward Burns.....	42 00	
George Callahan.....	90 00	
Asa B. Carll.....	34 00	
Patrick Donahoe.....	80 00	
Thomas J. Duffy.....	30 00	
William J. Flynn.....	34 00	
Philip Ginty.....	34 00	
Thomas Hanafin.....	79 00	
George Kivlin.....	80 00	
Peter F. Kelly.....	46 00	
Andrew Maguire.....	80 00	
Patrick McGilly.....	76 00	
Bernard McAnulty.....	46 00	
Timothy McNamara.....	46 00	
Edward O'Leary.....	52 00	
George A Philbrick.....	80 00	
Warren N. Roberts.....	91 00	
Cornelius Regan.....	34 00	
Michael Walsh.....	34 00	
George J. Wyman.....	46 00	
	<hr/>	1,264 00

Paid for SUNDRIES :

To Appropriation for Public Buildings, for labor.....	\$ 65 44
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Amounts carried forward..... \$ 65 44 \$154,184 22

Amounts brought forward \$ 65 44 \$154,184 22

EVENING SCHOOLS.

Paid for SUNDRIES:

To Lowell Gas Light Co., for gas	930 31	
Davis & Sargent, for lumber	11 05	
Milton Aldrich, for thumb screws . .	3 00	
John C. Bennett, for hardware	4 46	
H. B. Shattuck, for hardware	92	
Frederick Taylor & Co., for brack- ets	1 19	
T. R. Garity & Co., for pipe, fit- tings, fixtures and labor	171 53	
H. C. Chase, for labor on appara- tus	3 00	
Charles Nichols, Jr., & Co., for disinfectant holders	3 60	
Coughlin & Co., for blank books . .	3 07	
Thompson, Brown & Co., for blank books	19 59	
Campbell & Hanscom, for printing and advertising	26 80	
Evening Democrat, for advertis- ing	12 00	
Franklin Printing Office, for print- ing	2 50	
Harrington Brothers, for printing . .	44 00	
F. E. Johnson, for printing	98 90	
Oliver A. Libby, for printing	3 15	
Morning Mail Co., for advertis- ing	1 50	
Marden & Rowell, for printing . . .	2 75	
A. V. Partridge, for posting and distributing bills	9 30	
George A. Philbrick, for services as special police officer	42 00	
John A. Smith, for services	20 00	
E. H. Morse, for carriage hire	1 40	
D. P. Knowlton, for teaming	1 00	
D. W. Mosher, for teaming	1 50	
Alphonso Merrill, for teaming	2 00	
Daniel McCarthy, for teaming	1 00	
		1,486 96

DRAWING SCHOOL.

Paid for INSTRUCTION:

To J. Nelson Dennis	\$222 25	
<i>Amounts carried forward</i>	\$222 25	\$155,671 18

SCHOOLS.

37

Amounts brought forward \$ 222 25 \$155,671 18

DRAWING SCHOOL.

Paid for INSTRUCTION :

To Fred W. Farnham.....	238 00	
Willard M. Foster.....	315 00	
Thomas E. Moran....	156 00	
Samuel G. Stephens.....	336 00	
Fred W. Stickney.....	308 00	
Ellen D. Carney.....	528 00	
Isabella Coburn.....	264 00	
Mary E. Cushing.....	229 00	
Abbie F. Davis.....	108 00	
Ella C. Green.....	300 00	
Hulda J. Leavitt.....	393 00	
Olive E. Underhill.....	48 00	
Helen W. Wright.....	696 00	
	<hr/>	4,141 25

Paid for SERVICES OF JANITORS:

To Michael McDermott.....	\$130 00	
John H. Quinn.....	125 00	
	<hr/>	255 00

Paid for SUNDRIES:

To Appropriation for School-Houses, for labor.....	\$ 16 50
Appropriation for Public Build- ings, for lumber and labor....	38 74
Lowell Gas Light Co., for gas....	322 36
Middlesex Electric Light Co., for lighting.....	34 50
T. R. Garity & Co., for plumbing, pipe, labor, etc.....	197 71
Frederick Taylor & Co., for hard- ware, glue, etc.....	2 50
Adams & Co., for carpet, enamel cloth, and hooks.....	8 35
H. Hosford & Co., for cambric....	3 90
Carleton & Hovey, for atomizer..	1 25
Lowell Rubber Co., for atomizers..	4 00
C B. Coburn & Co., for alcohol, shellac, sponges, brushes, glass, etc	12 07

Amounts carried forward \$ 641 88 \$160,067 43

Amounts brought forward..... \$641 88 \$160 067 43

DRAWING SCHOOL.

Paid for SUNDRIES:

To Boston Terra Cotta Co., for terra cotta.....	5 13	
Frost & Adams, for copies and expressing.....	3 82	
P. Garibaldi, for bas reliefs.....	7 50	
Paul A. Garey & Co., for models, clay, plaster, etc.....	108 00	
Edward Prang & Co., for models..	24 80	
Albert M. Harmon, for mounting copies	5 00	
Bacheller, Dumas & Co., for portfolio, books and paper.....	2 55	
Citizen Newspaper Co., for printing and advertising.....	22 00	
Campbell & Hanscom, for printing and advertising.....	17 00	
Morning Mail Co., for printing and advertising	18 50	
Marden & Rowell, for advertising.	11 00	
Vox Populi Press, for advertising.	11 25	
A. V. Partridge, for posting.....	4 80	
Mary E. Cushing, for preparing studies and cash paid for postals and stamps.....	10 31	
Ellen D. Carney, for copies, drawings, paper, etc.	17 33	
Fred W. Stickney, for cash paid for postals, printing and sponge..	2 75	
Lovejoy-Paul Express, for transportation.....	2 00	
U. S. & C. Express, for transportation.....	25	
	<hr/>	915 87
Whole expenditure for the year..		<hr/> <hr/> \$160,983 30

SCHOOL-HOUSES.

Balance undrawn Jan. 1, 1885....	\$723 59	
Appropriated and assessed in 1885.	25,000 00	
		\$25,723 59

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF SCHOOL-
HOUSES:

From Appropriation for Schools, for book cases, desks, tables, lum- ber and labor	\$ 250 45	
Appropriation for Roads and Bridges, for shellac, lumber and labor.....	7 18	
Appropriation for Police, for labor and material.....	15 69	
Appropriation for Fire Depart- ment, for lumber, paint, oil, glass, etc.....	16 61	
Appropriation for Commons, for paint	8 69	
Appropriation for Public Buildings, for lumber.....	2 32	
Appropriation for Library, for lum- ber and nails.....	67 84	
Appropriation for Water Works, for lumber and moulding....	18 07	
Reserved Fund, for lumber.....	2 82	
George A. Chase, for old copper...	7 73	
<i>Amounts carried forward.....</i>	\$397 40	\$25,723 59

Amount brought forward \$ 397,40 \$ 25,723 59

Received into the Treasury on account of SCHOOL-HOUSES :

From C. H. Donaldson, for water.....	1 50	
S. D. Butterworth, for water....	1 38	
John Mooney, for overdraft....	1 75	
Holland & Rand, for stone.....	10 00	
C. E. Amaron, for desks.....	7 50	
Joseph S. Anderson, for lumber	1 35	
A. Keddie, for lumber.....	1 00	
Commissioners of Sinking Funds, on loan.....	20,000 00	
		<u>20,421 88</u>
		<u>\$46,145 47</u>

EXPENDITURES.

Paid for ADDITION TO SCHOOL-
HOUSE ON AGAWAM
STREET:

To sundry persons, for labor, as per pay- rolls.....	\$ 67 35	
John H. Fuller, for building cellar, per contract.....	204 00	
C. F. & J. B. Varnum, for labor and material per contract.....	1,857 18	
C. F. & J. B. Varnum, for extra labor.....	25 87	
Merrill & Cutler, for professional services.....	74 91	
Davis & Sargent, for lumber.....	2 40	
Farrell & Conaton, for plumbing, per contract.....	50 00	
Pevey Bros., for castings.....	45 50	
Wallingford & Callaghan, for stoves, zinc and labor.....	109 21	
Campbell & Hanscom, for advertis- ing.....	4 50	
Citizen Newspaper Co., for adver- tising.....	4 81	
Evening Democrat, for advertising	1 00	
Morning Mail Co., for advertising.	4 13	
Marden & Rowell, for advertising.	3 93	
O. Bartlett, for teaming:.....	50	24,55 29
		<u>\$2,455 29</u>
<i>Amount carried forward</i>		

Amount brought forward \$ 2,455 29

Paid for ADDITION TO SCHOOL-
HOUSE ON CENTRAL
STREET:

To Sundry persons, for labor as per pay-rolls.....	\$ 427 17	
John H. Fuller, for building cellar per contract.....	548 00	
Ladd & Conant, for labor and material per contract.....	3,797 24	
Merrill & Cutler, for professional services.....	195 55	
Amasa Pratt & Co., for lumber..	5 93	
Farrell & Conaton, for plumbing per contract	525 00	
Farrell & Conaton, for pipe, tin, copper and labor.....	47 54	
T. R. Garity & Co., for steam heating apparatus, per contract...	524 00	
Pevey Bros., for castings.....	45 50	
C. B. Coburn & Co., for paint.....	1 80	
Fiske & Spalding, for shades and fixtures	40 00	
Benner Bros., for chairs.....	21 00	
Whithed & Co., for cement.....	1 50	
Campbell & Hanscom, for advertising.....	4 50	
Citizen Newspaper Co., for advertising	4 82	
Evening Democrat, for advertising,	1 00	
Morning Mail Co., for advertising,	4 12	
Marden & Rowell, for advertising,	3 93	
George L. Fowler, for moving school-house.....	65 00	
C. H. Hanson & Co., for teaming.	20 00	
	<hr/>	6,283 60

Paid for ADDITION TO SCHOOL-
HOUSE ON AMES STREET:

To Sundry persons, for labor as per pay-rolls	\$ 214 44	
S. F. French, for labor and material, per contract.....	1,694 00	
S. F. French, for extra labor.....	51 00	
John H. Fuller, for stone work...	274 00	
<i>Amounts carried forward</i>	<hr/>	\$ 2,233 44 \$ 8,738 89

Amounts brought forward..... \$2,233 44 \$ 8,738 89

Paid for ADDITION TO SCHOOL-
HOUSE ON AMES STREET:

To F. W. Stickney, for drawings, specifications and details.....	85 31	
Appropriation for Roads and Bridges, for stone.....	1 50	
S. D. Butterworth, for mason work and material.....	41 90	
John Gilchrist, for pipe, fittings and labor.....	39 81	
Pevey Bros., for castings.....	45 50	
H. B. Shattuck, for hardware.....	7 50	
C. B. Coburn & Co., for paint.....	60	
Luther Richards, for moving building.....	30 00	
Citizen Newspaper Co., for advertising.....	1 25	
Campbell & Hanscom, for advertising.....	78	
Evening Democrat, for advertising,	75	
Marden & Rowell, for advertising,	78	
Morning Mail Co., for advertising,	93	
Vox Populi Press, for advertising,	1 00	
O. Bartlett, for teaming.....	50	
D. P. Knowlton, for teaming.....	50	
William Roberts, for teaming....	1 50	
George Thorpe, for teaming.....	1 00	
	<hr/>	2,494 55

Paid for ADDITION TO SCHOOL-
HOUSE ON LONDON
STREET:

To sundry person, for labor as per pay-rolls.....	\$ 343 32	
A. L. Brooks & Co., for lumber...	62 60	
Burnham & Moran, for lumber...	101 93	
Davis & Sargent, for lumber.....	158 19	
N. P. Favor, for window frames.	25 75	
William H. Kimball, for walnut rail.....	3 50	
J. G. Peabody & Sons, for windows.....	14 90	
Amasa Pratt & Co., for lumber and doors.....	13 36	
Charles E. Adams, for hardware...	5 11	
<i>Amounts carried forward</i>	\$ 728 66	\$11,233 44
	<hr/>	<hr/>

Amounts brought forward..... \$ 728 66 \$ 11,233 44

Paid for ADDITION TO SCHOOL-
HOUSE ON LONDON
STREET:

To Bartlett & Dow, for hardware....	10 14	
H. B. Shattuck, for hardware.....	11 70	
American Bolt Co., for rods.....	3 00	
H. H. Wilder & Co., for pipe, sinks, solder, labor, etc.....	38 11	
Wallingford & Callaghan, for stove, pipe, zinc and labor....	56 54	
Benner Bros., for chair.....	1 75	
C. B. Coburn & Co., for glass and paint.....	25 24	
Fiske & Spalding, for shades and fixtures.....	13 80	
E. W. Coburn, for mason work and material.....	222 22	
Pevey Bros., for castings.....	30 71	
Luther Richards, for raising build- ing.....	50 00	
O. Bartlett, for teaming.....	50	
D. P. Knowlton, for teaming.....	50	
James Leach, for teaming.....	75	
T. G. Little, for teaming.....	1 00	
George H. McNabb, for teaming..	1 00	
Daniel McCarthy, for teaming....	2 00	
William Roberts, for teaming.....	1 00	
S. Tompkins, for teaming.....	75	
	<hr/>	1,199 37

Paid for ADDITION TO SCHOOL-
HOUSE ON TENTH
STREET:

To Sundry persons, for labor per pay rolls.....	\$ 178 81	
C. H. Donaldson, for labor and ma- terial per contract.....	1,762 00	
C. H. Donaldson, for extra labor, and material.....	37 40	
Bernard Riley, for stone work per contract.....	274 00	
F. W. Stickney, for drawings, spe- cifications and details.....	81 97	
Davis & Sargent, for lumber.....	1 76	
Pevey Bros., for castings.....	25 52	
<i>Amounts carried forward</i>	<hr/> \$2,361 46	<hr/> \$ 12,432 81

Amounts brought forward..... \$2,361 46 \$ 12,432 81

Paid for ADDITION TO SCHOOL-
HOUSE ON TENTH
STREET :

To Citizen Newspaper Co., for advertising	1 25	
Campbell & Hanscom, for advertising.....	78	
Evening Democrat, for advertising.....	75	
Marden & Rowell, for advertising.....	78	
Morning Mail Co., for advertising.....	94	
Vox Populi Press, for advertising.....	1 00	
O. Bartlett, for teaming.....	1 00	
James Leach, for teaming.....	50	
McDonald & Mason, for teaming..	75	
George Thorpe, for teaming.....	50	
	<hr/>	2,369 71

Paid for LUMBER, HARDWARE,
ETC. :

To Otis Allen & Son, for lumber.....	\$ 25 28	
A. L. Brooks & Co., for lumber...	211 85	
Burnham & Moran, for lumber and labor	124 97	
Badger & Holmes, for balusters, table legs and labor.....	6 60	
A. P. Bateman, for lumber.....	18 07	
A. Batchelder & Co., for sash.....	4 50	
Crosby Furniture Co., for lumber, moulding and labor.....	25 12	
Carter & Bemis, for window frames and brackets.....	9 48	
Davis & Sargent, for lumber.....	54 69	
S. W. Fletcher, for doors.....	4 00	
William Kelley & Son, for windows,	7 00	
William Kimball, for posts, rails and labor.....	11 30	
Amasa Pratt & Co., for lumber, doors and sash.....	636 93	
J. G. Peabody & Sons, for windows,	1 34	
Parker & Cheney, for oak columns,	39 00	
Whitney & Tibbetts, for lumber..	293 30	
Charles E. Adams, for hardware..	14 86	
E. W. Bennett, for hardware.....	65	
<i>Amounts carried forward</i>	<hr/> \$1,488 94	<hr/> \$ 14,802 52

Amounts brought forward \$1,488 94 \$ 14,802 52

Paid for LUMBER, HARDWARE,
ETC. :

To Bartlett & Dow, for hardware . . .	16 71	
John C. Bennett, for hardware and paint	32 75	
H. B. Shattuck, for hardware	77 12	
Frederick Taylor & Co., for hard- ware	59 57	
Charles Runels, for granite thres- hold	3 00	
Sweatt & Davis, for window cap..	1 00	
	<hr/>	1,679 09

Paid for SUNDRIES :

To Sundry persons, for labor as per pay rolls	\$ 3,140 58
Sundry persons, for services as janitors	11,179 53
Appropriation for Roads and Bridges, for services of City Engineer and labor	30 08
Appropriation for Sewers and Drains, for Sewer assessment, Rock street	74 32
Appropriation for Sewers and Drains, for sewer assessment, Fourth avenue	120 00
Appropriation for Sewers and Drains, for sewer assessment, Mammoth road	45 00
Appropriation for Water Works, for pipe and fittings	7 75
Appropriation for Water Works, for water	6 24
O. E. Everill, for blacksmithing..	29 50
Boutwell Bros., for iron	3 10
T. Costello & Co., for plumbing...	3 00
Farrell & Conaton, for plumbing, pipe, fittings and labor	1,088 63
John Gilchrist, for pipe, solder, packing and labor	32 00
M. J. Hennessey, for pipe and fit- tings	17 11
S. G. Mack & Co., for tin, zinc, solder and labor	15 58

Amounts carried forward \$15,792 42 \$ 16,481 61

Amounts brought forward..... \$15,792 42 \$ 16,481 61

Paid for SUNDRIES:

To Pettingell Chimney Cap Co., for chimney cap.....	4 00
Rice & Co., for wire railing.....	4 10
A. J. W. Sweet, for repairing lighting roads.....	15 62
Union Iron Foundry Co., for castings	16 50
H. H. Wilder & Co., for pipe and labor	13 70
Wallingford & Callaghan, for zinc, solder and labor.....	4 46
C. Zimmer, for key blanks.....	72
C. B. Coburn & Co., for paint, glass, twine, bronze, sponge, shellac, alcohol, asphaltum, etc.....	256 06
George L. Cady for harness eyes.	2 20
John Doherty, for soap.....	80
H. F. Ebert, for enamel cloth.....	6 60
Fiske & Spalding, for glass, paint, lead, shellac, spirits turpentine, etc	302 53
Josiah Gates & Sons, for scrap leather	81
Jonathan Kendall & Co., for paint, glass, brushes, etc.	37 68
Alexander F. Reid, for sash cord..	3 69
William Wirt, for ladder hook....	75
Edward N. Wood & Co., for lawn dressing	1 50
S. D. Butterworth, for mason work and material.....	59 66
E. W. Coburn, for mason work and material.....	49 41
Hooper Bros., for mason work and material.....	35 00
D. M. Prescott, for mason work and material.....	110 00
Rollins & Sergeant, for mason work and material.....	358 63
James Smith, for mason work and material.....	6 50
J. W. Bennett & Co., for roofing..	3 10

Amounts carried forward..... \$17,086 44 \$ 16,481 61

Amounts brought forward..... \$17,086 44 \$ 16,481 61

Paid for SUNDRIES:

To Robert Goulding, for slate, zinc and labor.....	82 63	
E. A. & A. T. Smith, for concrete.....	318 53	
Bennett & White, for brick.....	1 60	
William Kittredge, for cement, lime and sand.	19 20	
William E. Livingston, for cement, lime and sand.....	11 66	
John L. Moulton, for stone furnished for Butler school-house in 1883.....	92 00	
P. O'Hearn, for stone, labor and use of derrick.....	193 33	
Whithed & Co., for cement.....	3 00	
P. W. Brown, for sods and labor..	50 00	
Merrill & Cutler, for professional services.....	11 37	
Atkins & Harmon, for blanket, board of horse and carriage hire	268 38	
John McDonald, for labor.....	12 00	
P. H. Brady, for teaming.....	1 00	
John Brady, for teaming.....	1 00	
O. Bartlett, for teaming.....	4 75	
C. H. Hanson & Co., for teaming..	14 25	
D. P. Knowlton, for teaming.....	3 00	
T. G. Little, for teaming.....	8 50	
James Leach, for teaming.....	6 75	
F. S. Ladd, for teaming.....	1 00	
McDonald & Mason, for teaming..	14 00	
Daniel McCarthy, for teaming....	5 25	
Alphonso Merrill, for teaming....	3 75	
James Nixon, for teaming.....	3 50	
John Ragan, for teaming.....	1 00	
William Roberts, for teaming....	11 25	
H. J. Shattuck, for teaming.....	4 00	
Samuel Tompkins, for teaming...	2 00	
Caleb Philbrick, for transportation	2 24	
O. C. R. R., for transportation....	50	
	<hr/>	18,238 88
Whole expenditure for the year.....		\$34,720 49
Balance undrawn Jan. 1, 1886.....		-11,424 98
		<hr/>
		\$46,145 47

ROADS AND BRIDGES.

Balance undrawn Jan. 1, 1885.....	\$3,425 08	
Appropriated and assessed in 1885....	30,000 00	
	<hr/>	\$33,425 08

RECEIPTS.

Received for MATERIAL, LABOR,
ETC:

From Appropriation for Schools, for labor.....	\$1,004 23	
Appropriation for School-houses, for stone and labor.....	31 58	
Appropriation for Paupers, for labor, etc.....	2,488 33	
Appropriation for Police, for labor.....	24 25	
Appropriation for Fire Department, for door irons and labor.....	332 02	
Appropriation for Sewers and Drains, for keeping horse, labor, etc.....	3,073 32	
Appropriation for Intercepting Sewer, for labor.....	89 09	
Appropriation for Commons, for crushed stone, wheels and labor.....	174 34	
Appropriation for Lighting, for labor, etc.....	110 17	
Appropriation for Public Buildings, for labor.....	39 79	
Appropriation for City Hall Building Lot, for labor....	23 76	
	<hr/>	
<i>Amounts carried forward.....</i>	\$7,390 88	<hr/> \$33,425 08

Amounts brought forward..... \$ 7,390 88 \$33,425 08

Received for MATERIAL, LABOR,
ETC.:

From Appropriation for Health, for labor, etc.....	529 30
Appropriation for Water Works, for labor.....	958 06
Appropriation for Taylor Street, for stone, lumber and labor,	2,502 04
Reserved Fund, for labor.....	949 43
Commissioners of Sinking Funds, on loan.....	35,000 00
William H. Dearborn, for overdraft.....	1 00
John Riley, for overdraft.....	1 50
Charles H. Allen, for crushed stone.....	6 00
Otis Allen & Son, for crushed stone.....	21 00
H. R. Barker, for stone.....	1 00
C. P. Barclay, for stone.....	7 50
Miles Brennan, for crushed stone.....	50
B. F. Butler, for crushed stone..	20 00
Jacob Baron, for stone and labor.....	13 47
Jacob B. Currier, for edgestone.	13 83
P. Cummiskey, for stone and labor.....	2 61
Charles F. Fish, for crushed stone.....	12 00
George G. Gray, for stone post and labor.....	5 75
Matthew Huntley, for crushed stone.....	4 00
F. J. Joyce, for edgestone and labor.....	46 80
Aaron Jacobs, for crushed stone,	12 50
John F. Kimball, for crushed stone.....	10 00
Harvey Knight, for crushed stone.....	12 00
Lowell Gas Light Co., for crushed stone.....	12 00
F. D. Munn, for crushed stone..	4 00

Amounts carried forward..... \$47,537 17 \$33,425 08

Amounts brought forward..... \$47,537 17 \$33,425 08

Received for MATERIAL, LABOR,
ETC.:

From Heirs of Hugh Moran, for brick and labor.....	14 40	
Cornelius Murphy, for old flag- ging.....	10 72	
James Nixon, for crushed stone,	1 50	
Charles E. Osgood, for edgestone,	14 07	
Timothy O'Brien, for crushed stone	2 00	
Proprietors of Locks and Canals on Merrimack River, for edgestone	12 16	
J. M. G. Parker, for crushed stone	37 50	
E. H. Packer, for crushed stone,	7 00	
F. S. Perkins, for crushed stone,	4 00	
Michael Roark, for old flagging,	2 04	
W. E. Somes, for crushed stone.	5 00	
Ira M. Chase, for pigs.....	131 22	
J. E. Conant & Co., for sale of carts, horses, harnesses, etc.	687 51	
Charles H. Hanson, for sale of horse, cinders, street sweep- ings, etc.....	512 77	
John C. Woodward, for sale of old material.....	24 00	
John Wheeler, for cinders.....	1 00	
Luther Kittredge, for cover.....	25	
Lowell Hosiery Co., for coal screenings.....	10 00	
E. A. & A. T. Smith, for con- crete on Chambers street...	33 21	
A. B. Buttrick, for street sweep- ings	2 00	
J. W. Bennett, for street sweep- ings	6 50	
B. G. Brown, for street sweep- ings	4 50	
Henry G. Cushing, for street sweepings.....	8 00	
James U. Gage, for street sweep- ings	9 00	
J. Oliver, for street sweepings..	6 50	

Amounts carried forward..... \$49,084 02 \$33,425 08

Amounts brought forward..... \$49,084 02 \$ 33,425 08

Received for MATERIAL, LABOR,
ETC.:

From W. W. Tuttle, for street sweepings	1 00	
John W. Tilton, for street sweepings	1 00	
B. & L. R. R., for labor	7 25	
B. & M. R. R., for labor	19 88	
W. R. Batchelder, for labor	9 88	
County of Middlesex, for street sweepings and labor	75 19	
Patrick Dempsey, for labor	30 00	
Southwell Farrington, for labor.	11 75	
T. R. Garity, for labor	3 57	
Lowell Horse R. R., for labor...	509 50	
Lowell Hospital Association for labor	4 50	
Patrick Lynch, for labor and sand,	4 50	
E. J. Noyes, for labor	16 00	
E. A. Smith & F. B. Shedd, Trustees, for labor	16 13	
George F. Richardson, for labor,	2 00	
Julius A. Stiles, for labor	71 55	
	<hr/>	49,867 72

Received for SIDEWALK AS-
SESSMENTS :

From Lowell Five Cent Savings Bank, Lawrence street	\$ 11 86	
Wamesit Power Co., Lawrence street	9 35	
Jane Cowen, Lawrence street...	11 04	
Martin Sexton, Lawrence street.	11 71	
Daniel J. Cleary, Lawrence street,	14 78	
Andrew Burns, Lawrence street.	10 70	
William H. Parker, Lombard street	23 50	
George Clarke, West Third street,	14 10	
J. M. G. Parker, West Third street	85 78	
Patrick Mahar, West Third street,	14 00	
Charles H. Hill, West Third street	18 80	
Pierre Rook, West Third street.	13 40	
	<hr/>	
<i>Amounts carried forward</i>	\$ 239 12	\$ 83,292 80

Amounts brought forward..... \$ 239 12 \$ 83,292 80

Received for SIDEWALK ASSESS-
MENTS:

From Hugh Murphy, West Third street,	14 10
John and Ann Murphy, West Third street.....	29 14
Oscar F. Prentiss, West Third street.....	16 45
Whitney & Tibbetts, Fletcher street.....	54 82
Patrick Ducey, Fletcher street.	45 74
Charles Forrest, Queen street...	60 57
Charles C. Coburn and Warren Fox, Methuen street.....	70 73
Patrick Horn, Kinsman street..	36 50
Mary N. Mahon, Kinsman street,	17 15
Thomas Donahoe, Kinsman street	55 58
John Loftus, Kinsman street...	23 81
Martin Dwyer, Kinsman street..	43 77
Wamesit Power Co. Kinsman street.....	49 00
Wamesit Power Co., Chambers street.....	73 22
Wamesit Power Co., Chambers street.....	119 43
William H. Bent, Chambers street.....	24 30
William H. Bent, Branch street,	13 44
George F. Penniman, Liberty street.....	567 20
George F. Penniman, Liberty street.....	27 70
George F. Penniman, Hastings street.....	70 13
Charles C. Osgood, Hastnigs street.....	26 34
John O. Flynn, Coburn street...	41 04
Samuel H. Randall, Manchester street.....	22 50
Harry Gumb, Manchester street,	15 00
Richard Gumb, Manchester street.....	15 00
Thomas Walsh, Eleventh street,	75 00
Angie Wing, Read street.....	93 22
George A. Chase, Canton street.	44 88
Ruth S. Shaw, Canton street...	30 60

Amounts carried forward..... \$2,015 48 \$ 83,292 80

Amounts brought forward..... \$2,015 48 \$ 83,292 80

Received for SIDEWALK ASSESS-
MENTS :

From Henry M. Bacon, Marshall street,	105 12
Boston & Lowell R. R., Hale	
street.....	112 08
J. Fairfield Bateman, Stevens	
street.....	35 04
John Q. Adams, West Adams	
street.....	37 40
James McElroy, Coburn street..	22 30
Michael Lally, Coburn street...	37 56
Joseph McCausland, Coburn	
street.....	50 18
Frank J. Joyce, Coburn street..	53 67
James Purcell, Coburn street...	45 22
Julia Purcell, West Third street,	15 75
Thomas H. Collins, West Third	
street.....	16 83
Ann Molloy, West Third street.	11 19
Nelson N. Holmes, West Third	
street.....	14 10
Hugh McKenna, West Third	
street.....	14 10
Ann Monahan, West Third street,	13 87
Moise Denean, West Third	
street... ..	13 40
John A. Kelley, West Third street,	21 15
Charles Wilkins, West Third	
street.....	14 10
Sarah Coupe, Kinsman street...	75 84
John B. Smith, Kinsman street.	15 82
Michael McLoughlin, Lawrence	
street.....	8 64
Michael Green, Lawrence street,	10 70
Jesse M. Bassett, Lawrence	
street.....	15 46
Mrs. B. F. Boynton, Lombard	
street.....	23 50
Mrs. B. F. Boynton, Lombard	
street.....	46 86
John Biggs, Canton street.....	27 18
Edward Stockman, Canton street,	27 54
Thomas J. Lyons, High street,..	34 93
Charles J. Glidden, Stevens	
street.....	266 98

Amounts carried forward..... \$3,201 99 \$ 83,292 80

Amounts brought forward..... \$ 3,201 99 \$ 83,292 80

Received for SIDEWALK ASSESS-
MENTS :

From F. H. Butler and F. H. Chandler, Moore street.....	68 69	
Proprietors of Locks and Canals on Merrimack River, Worthen street.....	13 66	
Artemas B. Woodworth, Worthen street.....	23 04	
Anna Tarr, Branch street.....	13 15	
Susan Holt and Abbie L. Shepard, Liberty street.....	45 40	
Holland Sreeter, Liberty street..	42 20	
Helen J. Bartlett, Methuen street.....	129 53	
Sager Ashworth, Worthen street,	48 01	
Sophia G. Girard, Hampshire street.....	18 80	
Joseph K. Flint, Liberty street.	140 30	
Bridget O'Connell, Coburn street,	39 69	
Milton Fox, Coburn street.....	114 60	
Milton Fox, West Third street..	13 48	
William Kelley, West Third street.....	21 15	
William Donovan, Fletcher street.....	22 41	
Peter Foley, Kinsman street....	35 57	
Roxanna Keating, Kinsman street.....	16 32	
Heirs of Charles A. F. Swan, Read street.....	42 41	
Joseph Bachelder, Willie street,	57 97	
Margaret Welch, Lawrence street,	16 51	
Miles F. Brennan, Moore street,	33 04	
James Meadowcroft, Lawrence street.....	117 50	
Lowell & Andover R. R., George street.....	15 51	
Lowell & Andover R. R., Law- rence street.....	23 15	
Lowell & Andover R. R., Law- rence street.....	50 85	
Avery Marshall, Grand street...	58 67	
Daniel Stickney, Read street....	69 80	
Phineas Whiting, Lombard street,	48 27	
<i>Amounts carried forward</i>	\$ 4,541 67	\$ 83,292 80

Amounts brought forward..... \$ 4,541 67 \$83,292 80

Received for SIDEWALK ASSESS-
MENTS:

From Phineas Whiting, Lombard street,	53 91	
Edward Murphy, Fletcher street,	57 80	
Daniel J. Murphy, Worthen street.....	24 63	
John Quinn, Hastings street....	167 78	
Edward Cawley, Kinsman street,	32 31	
George N. Osgood, Liberty street,	101 85	
Stephen P. Sargent, Stevens street.....	57 52	
Franklin Martin, Liberty street,	40 75	
Patrick Toohey, Lawrence street,	8 50	
Eliza Cowley, Lawrence street..	19 49	
Henry C. Cockerille, Coburn street	30 95	
Henry C. Cockerille, West Third street.....	19 74	
Henry W. Tibbetts, West Third street.....	19 98	
Stephen McMonagle, Hampshire street.....	94 00	
John H. Harrington, Fremont street.....	26 71	
Stephen B. Puffer, West Adams street.....	142 29	
Stephen B. Puffer, West Adams street.	22 73	
Catherine Earl, Manchester street.....	3 34	
John J. Dunovan, Branch street,	10 67	
William H. Shedd, West Third street.....	19 98	
James L. Morse, London street.	23 50	
Frederick W. Sargent, Wanna- lancit street.....	153 22	
B. W. Gale, Moore street.....	41 33	
Julius C. Jockow, Moore street,	29 68	
Alfred J. Livingston, Chelms- ford street.....	19 14	
Robert G. Bartlett, Worthen street.....	99 21	
John H. Sweet, Liberty street .	88 50	
Richard Dobbins, Liberty street,	132 04	
<i>Amounts carried forward</i>	\$ 6,083 22	\$83,292 80

Amounts brought forward..... \$6,083 22 \$83,292 80

Received for SIDEWALK ASSESS-
MENTS:

From George N. Leathers, Hastings street...	32 91	
George F. Goode, Hastings street,	25 52	
Artemas S. Young, Sixth and Beach streets.....	8 34	
Annie F. M. Going, Stevens street.....	45 71	
J. F. Callahan, Coburn street...	66 07	
Frank Brown, Coburn street....	27 99	
John S. Eldridge, Wilder street,	27 44	
Mrs. John Preston, Kinsman street.....	22 05	
Heirs of Mary Handley, Kinsman street.....	45 39	
Clark J. Glidden, Belmont street,	25 00	
Samuel P. Griffin, Mansur street,	32 13	
Thomas Leland, Chambers street,	75 42	
John H. Ward, Hildreth street..	48 17	
J. M. G. Parker, Hildreth street,	42 99	
Thomas Boynton, Hildreth street,	80 94	
Mary A. Callahan, Hildreth street.....	21 04	
James O'Beirne, George street..	41 45	
Bartlett Davis, Lombard street..	23 50	
Joseph Y. Bradbury, Hastings street.....	32 17	
Joseph Y. Bradbury, Queen street.....	66 43	
Charles F. Varnum, Queen street	61 97	
Owen Fitzpatrick, Chapel street,	34 22	
John Cronin, Fletcher street....	47 66	
Mrs. John McAlvin, Methuen street... ..	51 36	
Wilbur L. Bates, Methuen street,	36 18	
Michael Gleason, Kinsman street,	18 28	
John Swett, Liberty street.....	50 60	
Estates of William P. Webster & Fisher A. Hildreth, Beach street.....	79 97	
Estate of William P. Webster, Beach street.....	47 95	
George A. Matthews, Stevens street.....	160 00	
<i>Amounts carried forward</i>	\$7,462 07	\$23,292 80

Amounts brought forward..... \$ 7,462 07 \$ 83,292 80

Received for SIDEWALK ASSESS-
MENTS:

From John Gumb, Manchester street..	45 00
Hiram Spearing, West Adams street.....	22 73
Bridget Gray, Kinsman street..	74 23
Paul F. Litchfield, Kinsman street.. ..	24 50
D. Clark Pike, Queen street....	63 18
Henry H. Johnson, Queen street,	68 43
Seth B. Hall, Hildreth street...	135 38
Seth B. Hall, Hildreth street...	23 75
Samuel P. Pike & Burnet B. Hart, Hildreth street.....	56 43
F. B. Shedd & E. A. Smith, Trustees, Concord street...	224 01
F. B. Shedd & E. A. Smith, Trustees, Concord street...	268 11
F. B. Shedd & E. A. Smith, Trustees, Concord street...	33 75
Newton J. Wier, Read street...	66 47
Joseph A. Coram, West Adams street.....	83 29
Thaddens S. Cobb, Eleventh and Beacon streets.....	166 47
Estate of Elizabeth Skelton, Os- good street.....	31 97
Henry J. P. Whipple, Moore street.....	70 17
George Hubbard, Beach street..	39 26
Robert G. Bartlett, Stevens street.....	100 00
Eben B. Stafford, Lilley avenue,	34 90
Catherine E. Brennan, Lilley avenue.....	35 72
B. F. Heald, Chambers street...	47 90
Elizabeth Butland, Chambers street.....	23 42
Daniel Swan, Livermore street..	90 04
James Gookin, Concord street..	22 50
Catherine A. Whipple, Moore street.....	32 48
L. W. Hall, Hildreth street....	23 75
John Flynn, Jr., Hildreth street,	21 04
Alfred B. Trombly, Hildreth street.....	44 89

Amounts carried forward..... \$ 9,435 84 \$83,292 80

Amounts brought forward..... \$9,435 84 \$83,292 80

Received for SIDEWALK ASSESS-
MENTS:

From John O. Flynn, Hildreth street..	21 04
Samuel W. Wilder, Belmont street.....	58 40
John Norris, Jr., Madison street.....	55 85
Charles F. Burnham, Hastings street.....	39 96
Mary Minnihan, Lilley avenue,	32 17
George F. Scribner, Mansur street.....	142 13
James H. McDermott, Madison street.....	58 52
Estate of H. C. Duganne, Madison street.....	36 48
Rebecca B. Coburn, Hildreth street.....	51 78
George Ferson, Hildreth street..	30 88
James E. Ryder, Pollard street.	79 34
Joseph L. Getchell, Agawam street	106 24
John Doherty, Agawam street..	9 18
Hiram A. Clarry, Wilder street,	24 50
Frederick W. Sargent, Wilder street.....	57 25
O. A. Simpson, West Third street.....	56 54
George H. McElroy, Agawam street.....	31 58
John Cochrane, Agawam street.	9 00
Patrick Mooney, Agawam street,	9 72
Herbert E. Barnes, Grand street,	14 99
Solon W. Stevens, Grand street,	15 12
Asa C. Russell, Lilley avenue...	32 53
John W. Pead, Lilley avenue...	142 99
Lovell W. Coburn, Lilley avenue,	42 87
John D. Grant, Lilley avenue...	35 72
Patrick Conroy, Wamesit street,	19 31
John Healey, Kinsman street..	25 58
Leander Crockett, Lincoln street,	46 00
Patrick Clancey, Lincoln street.	23 00
Mary O'Neil, Lincoln street....	23 00
Margaret A. Appleton, Moore street	33 60

Amounts carried forward..... \$10,801 11 \$83,292 80

Amounts brought forward..... \$10,801 11 \$ 83,292 80

Received for SIDEWALK ASSESS-
MENTS :

From Margaret A. Appleton, [Moore street.....	49 80
Solomon K. Dexter, Pollard street.....	30 32
John Howe, Liberty street.....	130 16
Mrs. C. A. F. Swan, Eleventh street.....	298 25
Charles H. Hanson, Rock street,	81 23
Luther Richards, Concord street,	38 25
Mary A. Cleary, Madison street,	14 40
John T. Peabody, Madison street.	24 00
Proprietors of Locks and canals on Merrimack River, Worthen street.....	14 88
Proprietors of Locks and Canals on Merrimack River, Worthen street.....	14 12
Arthur G. Pollard, Mansur street,	127 02
Augusta Coffey, Read street....	32 78
Willard Everett, Belmont street,	30 00
Ethan A. Smith & John G. Stedman, Belmont street.....	100 00
Ethan A. Smith & John G. Stedman, Belmont street	143 05
Ethan A. Smith & John G. Stedman, Belmont street.....	145 75
Ethan A. Smith & John G. Stedman, Belmont street.....	174 75
Ethan A. Smith & John G. Stedman, Belmont street.... ..	37 50
Ethan A. Smith & John G. Stedman, Belmont street.....	70 00
Ethan A. Smith & John G. Stedman, Belmont street.....	37 50
Ethan A. Smith & John G. Stedman, Belmont street.....	47 50
Ethan A. Smith & John G. Stedman, Belmont street.....	37 50
Albert J. Richardson, Hildreth street.....	36 81
Increase S. Richardson, Hildreth street.....	59 38

Amounts carried forward..... \$12,576 06 \$ 83,292 80

Amounts brought forward..... \$12,576 06 \$ 83,292 80

Received for SIDEWALK ASSESS-
MENTS:

From John M. Richardson. Hildreth street.....	47 50	
Increase S. and John M. Richard- son, Hildreth street.....	96 43	
Increase S. Richardson and Heirs of Charlotte R. Coburn, Hildreth street.....	25 89	
George B. Farnham, Queen street	49 10	
	<hr/>	12,794 98
		<hr/>
		\$ 96,087 78
		<hr/>

EXPENDITURES.

Paid SUPERINTENDENT OF
STREETS AND CIVIL EN-
GINEER:

To John C. Woodward, Supt. of streets, (salary).....	\$ 59 18	
Charles H. Hanson, Supt. of streets, (salary).....	1,740 82	
George E. Evans, Civil Engineer, (salary).....	2,500 00	
	<hr/>	\$4,300 00

Paid SUNDRY PERSON, FOR
LABOR AS PER PAY-ROLLS:

In January.....	\$6,049 33	
February.....	5,143 12	
March.....	3,391 46	
April.....	3,996 52	
May.....	4,729 78	
June.....	4,881 46	
July.....	5,125 24	
August.....	7,470 13	
September.....	5,274 76	
October.....	4,791 13	
November.....	4,015 08	
December.....	3,414 75	
	<hr/>	58,282 76
		<hr/>
<i>Amount carried forward</i>		\$ 62,582 7.

Amount brought forward..... \$ 62,582 76

Paid for HAY, GRAIN, ETC. :

To M. Corbett, for hay.....	\$152 88	
H. S. Carleton, for straw.....	24 48	
J. B. Cover & Co., for meal, oats, corn and straw.....	224 01	
Coggin, Kidder & Co., for oatmeal.	21 50	
G. M. Foster, for hay, straw and potatoes	1,305 98	
W. P. Foye, for meal, oats and corn,	197 84	
C. H. Hanson & Co., for hay	52 18	
William E. Livingston, for oats, corn and straw.....	1,018 74	
Joseph Miller & Co., for oats, corn, meal, hay and straw.....	410 28	
Joseph Miller, for oats	31 00	
Parks Bros., for hay.....	193 86	
J. G. Rogers & Co., for oats and corn	155 90	
Stiles, Rogers & Co., for oats, corn and meal	408 94	
John Trull, for straw.....	20 45	
E. W. Trueworthy, for hay.....	217 00	
William H. Wiggin, for hay.....	130 44	
John A. Woodsum, for hay.....	661 84	
Edward N. Wood & Co., for hay, corn and meal.....	958 19	
Lorenzo Wood, for straw.....	6 80	
O. D. Wilder, for oats and corn...	225 22	
George B. Whitney, for hay.....	80 15	
	<hr/>	6,497 68

**Paid for LUMBER, STONE, BRICK,
CEMENT, CONCRETE, ETC. :**

To Badger & Holmes, for lumber and labor.....	\$106 00	
Burnham & Moran, for lumber....	75 42	
A. L. Brooks & Co., for lumber....	73 71	
A. P. Bateman, lumber.....	64 98	
J. F. Bateman, for surveying lum- ber	1 66	
A. B. Buttrick, for lumber.....	239 36	
Davis & Sargent, for lumber and sawdust.....	49 00	
Howe Bros. & Co., for lumber.....	12 96	
	<hr/>	
<i>Amounts carried forward</i>	\$623 09	\$69,080 44

Amounts brought forward..... \$ 623 09 \$69,080 44

Paid for LUMBER, STONE, BRICK,
CEMENT, CONCRETE, ETC.:

To Amasa Pratt & Co., for lumber and labor	13 12	
William P. Simpson, for lumber..	10 00	
Whitney & Tibbetts, for lumber..	248 59	
F. W. Bennett, for stone.....	24 50	
James W. Bennett, for gravel....	87 45	
Willard Coburn, for gravel.....	43 20	
Michael Doyle and V. E. Robey, for gravel.....	82 80	
Robert Gardner, for breaking paving stones.....	1,910 40	
Lamson Cash Railway Co., for gravel and stone.....	135 90	
Peter Littlehale, for stone.....	13 00	
J. Marinel, for flagging, edgestone and bound posts.....	166 20	
Mrs. Samuel Parker, for gravel...	15 00	
George F. Penniman, for stone....	51 62	
Noah Prescott, for edgestone....	29 31	
Rowena H. Read, for gravel.....	181 60	
Solomon Spaulding, for edgestone,	84 50	
Sweatt & Reed, for paving stone, edgestone and flagging.....	6,567 65	
Joseph W. Smith, for gravel.....	26 00	
E. A. & A. T. Smith, for concrete.	3,572 27	
O. H. P. Trask, for repairing stone roller	20 00	
William E. Livingston, for brick..	17 00	
Whithed & Co., for brick.....	22 83	
	<hr/>	13,946 03

Paid for IRON, STEEL, HARD-
WARE, TOOLS, ETC.:

To Sager Ashworth & Co., for rasps and files.....	\$ 59 81	
Charles E. Adams, for hardware and tools.....	220 62	
American Bolt Co., for bolts and labor	16 40	
Bartlett & Dow, for hardware and tools.....	43 22	
Boutwell Bros., for iron, steel, etc.	623 20	
	<hr/>	
<i>Amounts carried forward</i>	\$ 963 25	\$83,026 47

Amounts brought forward..... \$ 963 25 \$83,026 47

Paid for IRON, STEEL, HARD-
WARE, TOOLS, ETC.:

To John C. Bennett, for hardware and tools.....	160 88	
Burch, Fenton & Co., for hardware,	4 64	
Cole & Nichols, for castings.....	9 30	
Farrell Foundry & Machine Co., for castings.....	129 57	
H. B. Shuttuck, for hardware and tools.....	30 50	
Frederick Taylor & Co., for hardware, tools, etc.....	79 81	
Union Iron Foundry Co., for castings.....	17 49	
	<hr/>	1,395 44

Paid for HORSES, HARNESSSES,
CARRIAGES, ETC.:

To Caleb Philbrick, for horse.....	\$225 00	
George F. Allen, for repairing harness	75	
S. L. Butman, for repairing harnesses	11 45	
T. M. Bolton & Co., for collars and repairing harnesses.....	56 35	
James Bailey & Co. for leather....	50 30	
Dyer & Patterson, for repairing harnesses	1 70	
H. F. Ebert, for baskets, blanket and repairing harnesses.....	26 65	
Joseph Ebert, for repairing harness,	3 20	
Hill & Langtry, for harness material and tools.....	345 88	
Aaron C. Sawyer, for repairing harnesses	3 25	
G. H. Convers, for repairing carriages.....	20 90	
Eagle Plating Co., for plating carriage rail.....	2 64	
George W. Osgood, for carriage umbrella	7 50	
H. A. Racicot, for painting carriages	26 00	
	<hr/>	
<i>Amounts carried forward</i>	\$ 781 57	\$84,421 91

Amounts brought forward..... \$ 781 57 \$84,421 91

Paid for HORSES, HARNESSES,
CARRIAGES, ETC. :

To C. B. Relyea, for hubs, spokes and repairing carriages.....	9 45	
Thomas C. Sawyer & Son, for repairing carriages.....	19 35	
	<hr/>	810 37

Paid for LAND AND DAMAGES :

To James W. Bennett, for damage to carriage.....	\$ 32 74	
G. E. Bailey & Son, for damage to harness	7 00	
Gookin Bros., for damage to carriage	9 80	
John Maguire, for building steps in front of his premises on Madison street.....	80 93	
Charles E. Smith, for land taken to widen Meadcroft street in 1883.....	21 50	
	<hr/>	151 97

Paid for SUNDRIES :

To Appropriation for Schools, for coal	\$ 14 66	
Appropriation for School-houses, for lumber and labor.....	7 18	
Appropriation for Paupers, for coal and wood.....	40 25	
Appropriation for Sewers and Drains, for horse, forge, brick and labor.....	495 11	
Appropriation for Public Buildings, for mortar and labor.....	3 00	
Appropriation for Taylor Street, for flagging.....	13 69	
Appropriation for Water Works, for pipe, fittings, labor, etc.....	15 09	
Appropriation for Water Works, for water.....	161 95	
O. E. Averill, for blacksmithing...	75	
H. R. Barker, for water-glass, packing, hose, pipe, and labor.....	25 79	
	<hr/>	
<i>Amounts carried forward</i>	\$ 777 47	\$85,384 25

ROADS AND BRIDGES.

65

Amounts brought forward..... \$ 777 47 \$ 85,384 25

Paid for SUNDRIES :

To Browning, Ladd, & Speirs, for pipe, fittings and labor.....	16 38
Daniel Cushing & Co., for galvanized iron flange.....	7 00
Richard Dobbins, for repairing engine.....	47 63
Edson Manufacturing Co, for repairing street-sweeper.....	46 90
Farrell Foundry & Machine Co., for castings.....	14 51
Fairbanks, Brown & Co., for scale.	120 00
Hallowell & Berry, for plumb balls	1 75
Hutchins & Co., for pipe, valves, hose, packing and labor.....	50 06
J. H. Haskell, for filing saws.....	16 34
C. T. Haskell, for level glasses and filing saws.....	1 95
Alvin Lawrence, for repairing blasting apparatus.....	1 50
James T. Murray, for repairing clock.....	1 50
S. G. Mack & Co., for pipe, zinc and thimble.....	6 18
A. Nourbourn, for repairing stone crusher.....	17 34
Nason B. Parsons, for filing saws..	14 53
O. P. Romaine, for labor on surveyors' rods.....	2 52
H. H. Wilder & Co., for oilers.....	50
N. J. Wier & Co., for repairing stove.....	4 65
Buttrick & Co., for salt, sulphur and matches.....	5 94
C. B. Coburn & Co., for oil, alcohol, paint, glass, twine, waste, basket, brushes, brooms, etc..	106 26
Coggin, Kidder & Co., for oat meal,	10 50
O. Duckworth, for oil.....	57 40
French & Puffer, for lanterns and globes.....	19 25
Charles O. Gilman, for broom material.....	4 55
Josiah Gates & Sons, for belt, leather, lacings and labor.....	19 35

Amounts carried forward..... \$ 1,371 96 \$ 85,384 25

Amounts brought forward..... \$1,371 96 \$85,384 25

Paid for SUNDRIES:

To Hartwell & Co., for soap.....	2 88
Jonathan Kendall & Co., for oil...	3 20
A. L. Kittredge, for india ink and paper	20 88
Nichols & Fletcher, for oatmeal, brooms, fuse and powder.....	32 49
J. B. Richardson & Sons, for mustard, vinegar and soap.....	7 50
O. B. Ranlett, for wicks.....	80
George H. Sampson, for exploders and powder.....	46 77
Talbot Dyewood & Chemical Co., for saltpetre, alum and borax,	2 65
White Bros. & Sons, for salt.....	7 94
C. H. Hanson & Co., for lime.....	3 98
William E. Livingston, for coal...	222 40
Gorham Lawrence, for medicine for horses.....	9 00
Frank P. Moody, for medicine for horses	1 85
J. H. Sparks, for attendance on horses.....	3 00
Robert Wood, for attendance on horses.....	55 50
Lucius M. Wright, for liniment...	5 00
George B. Whitney, for shoats and pasturing horse.....	67 00
Lowell Gas Light Co., for gas.....	116 74
New England Telephone & Telegraph Co., for telephone service	57 93
Bacheller, Dumas & Co., for paper and cutting.....	75
F. P. Coggeshall, for blank books and stationery.....	8 67
H. C. Church & Son, for blank books, stationery, mucilage and rubber bands.....	18 84
A. Whitney, for paper, rubber, pencils and pens.....	11 29
Thomas Groom & Co., for paper...	4 95
Citizen Newspaper Co., for blank books and advertising.....	10 75

Amounts carried forward..... \$2,094 72 \$85,384 25

Amounts brought forward..... \$2,094 72 \$ 85,384 25

Paid for SUNDRIES:

To Campbell & Hanscom, for advertising.....	9 50	
Morning Mail Co., for blank book, envelopes and printing.....	14 57	
Marden & Rowell, for printing and advertising	14 50	
George E. Evans, for cash paid for repairing tape, postage and traveling expenses	7 20	
Charles H. Hanson, for cash paid for broom material and traveling expenses.....	6 52	
William H. Harrigan, for cash paid for straw, gravel, collars, hose, clock, fringe, cloth, keys, postage, etc.....	65 81	
Proprietors of Locks and Canals on Merrimack River, for use of land for storing paving....	35 33	
Town of Dracut, for taxes of 1885,	23 75	
J. E. Conant & Co., for services at sale of horses, carts, etc.....	25 00	
Charles Clapp, for clipping horse..	3 00	
B. G. Brown, for teaming.....	106 50	
G. M. Foster, for use of horse....	6 00	
C. H. Hanson & Co., for use of horses	58 50	
J. L. Noyes & Son, for use of horses	67 00	
Bernard Riley, for teaming... ..	16 50	
L. F. Kittredge, for use of derrick,	21 00	
O A. Simpson, for use of derrick,	12 00	
Thomas F. Fay, for removing night soil	8 00	
Lovejoy-Paul Express, for transportation	12 95	
U. S. & C. Express, for transportation	75	
B. & L. R. R., for transportation.	4 11	
B. & M. R. R., for transportation.	61	
O. C. R. R., for transportation....	2 49	
		2,616 31
<i>Amount carried forward</i>		\$ 88,000 56

<i>Amount brought forward</i>	\$ 88,000 56
Whole expenditure for the year.....	\$88,000 56
Balance undrawn, Jan. 1, 1886.....	8,087 22
	<hr/>
	\$96,087 78
	<hr/>

RESERVED FUND.

Balance undrawn Jan. 1, 1885.....	\$3,583 84	<div style="border-top: 1px solid black; display: inline-block; width: 100px;"></div> \$3,583 84
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RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From Appropriation for Paupers, for wood from Edson Cemetery,	\$ 15 00	
John F. Crosgrove, for rent of Huntington and Jackson Halls.....	140 00	
George O. E. French, for rent of Huntington and Jackson Halls.....	4,056 89	
Young Men's Catholic Library Association, for rent of Huntington Hall.....	40 00	
St. Peter's Orphan Asylum, for rent of Huntington Hall...	30 00	
Theodore Gardner, for rent of Jackson Hall.....	30 00	
Commonwealth, for rent of Armories	800 00	
County of Middlesex, for rent of Police Court rooms....	750 00	
Joseph S. Anderson, for rent of store in City Hall Building,	816 67	
Carleton & Hovey, for rent of store in City Hall Building,	1,500 00	
Percia L. Dyar, for rent of store in City Hall Building.....	900 00	
<i>Amounts carried forward.....</i>	<div style="border-top: 1px solid black; display: inline-block; width: 100px;"></div> \$9,078 56	<div style="border-top: 1px solid black; display: inline-block; width: 100px;"></div> \$3,583 84

<i>Amounts brought forward</i>	\$9,078 56	\$3,583 84
Received into the TREASURY ON ACCOUNT OF RESERVED FUND:		
J. H. Guillet, for rent of store in City Hall Building.....	300 00	
Mrs. S. A. Proper, for rent of store in the City Hall Build- ing.....	675 00	
Appropriation for Water Works, for rent of store in City Hall Building.....	75 00	
C. P. Talbot & Co., for rent of store in Market House Build- ing.....	600 00	
Talbot Dyewood and Chemical Co., for rent of store in Market House Building....	900 00	
George A. Chase, Supt. of Public Buildings, for rent of Ward- rooms	266 00	
Samuel M. Chase, City Clerk, for marriage certificates.....	350 50	
Samuel M. Chase, City Clerk, for recording mortgages, assign- ments, liquor licenses and dog licenses.....	1,391 85	
Samuel M. Chase, City Clerk, for sundry licenses, etc.....	1,093 23	
Van B. Sleeper, City Treasurer, on account of liquor licenses,	40,343 25	
Van B. Sleeper, City Treasurer, for cost of advertising pro- perty for sale for non-pay- ment of taxes.....	59 78	
Richard J. Noonan, Supt. of City Scales, for fees for weighing.....	436 75	
Richard J. Noonan, Measurer of Wood and Bark, for fees for measuring.....	232 40	
James H. Riley, Sealer of Weights and Measures, for fees	13 17	
Alvin A. Hanscom, Milk In- spectors, for licenses.....	90 00	
<i>Amounts carried forward</i>	<hr/> \$55,905 49	<hr/> \$3,583 84

Amounts brought forward..... \$55,905 49 \$3,583 84

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From Peter Marine, for license.....	25 00
D. Dimodena, for license.....	25 00
J. Frank Page, for witness fee not taken.....	60
James W. Cummiskey, for over- draft.....	6 00,
Frank A. Smith, for overdraft..	2 00
Charles E. Smith, for overdraft.	25
Immaculate Conception Temper- ance Society, for book case.	7 00
The following persons for costs of preparing sundry estates for sale for non-payment of taxes:	
Thomas Brown, on estate of Samuel Fay.....	11 40
Bridget Conners, on Estate of John Butland.....	5 70
Luther E. Shepard, on estate of A. Stevens.....	11 40
Joseph P. Thompson, on estate of Henry P. Whipple.....	5 70
Joseph P. Thompson, on estate of John Butland.....	5 70
The following persons for amounts received over and above the taxes costs and in- terests on estates sold for non-payment of taxes:	
Thomas Brown, on estate of Samuel Fay.....	1 30
Bridget Conners, on estate of John Butland.....	01
Luther E. Shepard, on estate of A. Stevens.....	2 05
Joseph P. Thompson, on estate of Henry P. Whipple.....	37
Joseph P. Thompson, on estate of John Butland.....	37
The following persons for care and grading of lots in Edson Cemetery:	

<i>Amounts carried forward</i>	<u>\$56,015 34</u>	<u>\$3,583 84</u>
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<i>Amounts brought forward.....</i>	\$56,051 34	\$3,583 84
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Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From W. Brown.....	3 00	
W. W. Clark.....	6 00	
George W. Henderson.....	2 00	
W. Ingalls.....	10 00	
J. Jessop.....	2 00	
Mrs. E. M. Pearce.....	10 00	
Mrs. Spofford.....	3 00	
C. H. Townsend.....	10 00	
A. Whittet.....	4 00	
Mrs. White	2 50	
John Little, for labor at Edson Cemetery	17 00	
John F. Webster, for labor at Ed- son Cemetery	76 25	
Wyllis G. Eaton, for sale of lots in Edson Cemetery, as fol- lows:		
Jane McLees, Section Z, Lot 351	10 00	
John L. Hill, Section Z, Lot 414,	10 00	
W. W. Foster, Jr., Section Z, Lot 371.....	7 50	
W. C. Cobb, Section Z, Lot 352.	10 00	
George Hinchcliffe, Section Z, Lot 384.....	7 50	
Sarah Hill, Section Z, Lot 354..	10 00	
C. H. Bugbee, Section Z, Lot 360.....	10 00	
J. F. Howard, Section Z, Lots 376 and 377.....	10 00	
F. G. Simpson, Section Z, Lot 413.....	7 50	
F. W. Rhoades, Section Z, Lots 392 and 393.....	10 00	
George S. Kittredge, Section Z, Lot 400.....	10 00	
James Potter, Section Z. Lot 397.....	10 00	
Henry Jackson, Section Z, Lot 367	7 50	
Daniel W. Langley, Section Z, Lots 385 and 386.....	17 50	
<i>Amounts carried forward.....</i>	<u>\$56,298 59</u>	<u>\$3,583 84</u>

Amounts brought forward..... \$56,298 59 \$ 3,583 84

Received into the TREASURY ON
ACCOUNT OF RESERVED
FUND:

From E. L. Morse, Section Z, Lot 378,	7 50	
F. E. Cleveland, Section Z, Lot		
363.....	10 00	
Hannah Green, Section Z, Lot		
387.....	10 00	
Colin McDonald, Section Z, Lot		
361.....	10 00	
G. B. Sylvester, Section Z, Lots		
411 and 412.....	10 00	
Simeon Graves, Section Z, Lot		
368.....	7 50	
M. M. Hatch, Section Z, Lots		
406 and 407.....	17 50	
Julia Hale, Section Z, Lot 362..	7 00	
James Guilline, Section Z, Lot		
373.....	7 50	
Alice Clark, Section Z, Lot 379.	10 00	
Louisa Russ, Section Z, Lot 369,	10 00	
S. C. Guilline, Section Z, Lot		
372.....	10 00	
Agnes Brown, Section Y, Lot 4.	2 00	
William Bramley, Section Y,		
Lot 30.....	2 00	
Arthur Gardner, Section Y, Lot		
1.....	2 00	
C. T. Chamberlin, Section Y,		
Lot 35.....	2 00	
A. D. Leavitt, Section Y, Lot 34	2 00	
Martha Mars, Section Y, Lot 33.	2 00	
		56,427 59
		<u>\$60,011 43</u>

EXPENDITURES.

Paid MEASURER OF WOOD AND
BARK, AND SUPERIN-
TENDENT OF CITY SCALES:

To Richard J. Noonan, Measurer,....	\$600 00	
Richard J. Noonan, Supt.....	200 00	\$800 00
		<u>\$800 00</u>

Amount carried forward.....

Amount brought forward..... \$ 800 00

Paid for SERVICES OF WARD
OFFICERS :

WARD ONE.

To Robert Dawson, Warden.....	\$ 10 00	
William Liddle, Clerk.....	5 00	
Silas D. Gordon, Clerk.....	5 00	
E. J. Bassett, Inspector.....	3 00	
George R. Choate, Inspector.....	3 00	
Thomas J. Duffy, Inspector.....	3 00	
J. A. Thompson, Inspector.....	3 00	
Matthew H. Gilroy, Warden	10 00	
Charles M. Brooks, Clerk.....	10 00	
George M. Clark, Inspector.....	6 00	
John Tancred, Inspector.....	6 00	
L. J. McDonough, Warden.....	10 00	
P. W. Clark, Clerk.....	10 00	
P. H. Denault, Inspector.....	3 00	
Peter F. Kelley, Inspector.....	6 00	
Fay H. Martin, Inspector.....	3 00	
	<hr/>	96 00

WARD TWO.

To Owen Horan, Warden.....	\$ 10 00	
Newell Abare, Clerk.....	10 00	
John W. Arlin, Inspector.....	6 00	
George L. Adams, Inspector.....	3 00	
James Kincade, Inspector.....	3 00	
George E. Duffy, Warden.....	5 00	
William A. McEvoy, Warden.....	5 00	
Robert L. Read, Clerk.....	10 00	
A. M. Bartlett, Inspector.....	3 00	
George W. Brothers, Inspector...	3 00	
Thomas Kenney, Jr., Inspector...	6 00	
Daniel J. Burke, Warden.....	5 00	
John McCluskey, Warden.....	5 00	
Thomas E. Boucher, Clerk.....	5 00	
Herbert A. Rugg, Clerk.....	5 00	
William P. Barry, Inspector.....	3 00	
Peter H. Lynch, Inspector.....	3 00	
James F. McKissock, Inspector..	6 00	
	<hr/>	96 00
<i>Amount carried forward</i>		<hr/> \$992 00

Amount brought forward \$ 992 00

Paid for SERVICES OF WARD
OFFICERS :

WARD THREE.

To John F. Rogers, Warden.....	\$ 10 00	
Irving S. Porter, Clerk.....	10 00	
John E. Maguire, Inspector.....	6 00	
O. S. Nute, Inspector.....	6 00	
John Angluin, Warden.....	10 00	
Charles H. Brothers, Clerk.....	10 00	
James J. Gannon, Inspector.....	3 00	
John J. Meade, Inspector.....	3 00	
Charles D. Rolfe, Inspector.....	6 00	
Michael Kelley, Warden.....	10 00	
Albert G. Swan, Clerk.....	10 00	
Silas R. Coburn, Inspector....	6 00	
James E. Hill, Inspector.....	3 00	
Jeremiah Ryan, Inspector.....	3 00	
	<hr/>	96 00

WARD FOUR.

To John S. Shea, Warden.....	\$ 10 00	
Tylon R. Scott, Clerk.....	10 00	
John E. Enright, Inspector	3 00	
S. C. George, Inspector.....	3 00	
Mortimer Sherman, Inspector.....	3 00	
James J. McOsker, Inspector.....	3 00	
C. Arthur Abbott, Warden.....	10 00	
Fred Horn, Clerk.....	10 00	
Edwards Cheney, Inspector... ..	6 00	
W. W. Graham, Inspector.....	6 00	
Michael M. Doyle, Warden.....	10 00	
Frank E. Jewett, Clerk.....	10 00	
Charles E. Kimball, Inspector....	6 00	
Julian E. Richardson, Inspector..	3 00	
C. W. W. Richardson, Inspector..	3 00	
	<hr/>	96 00

WARD FIVE.

To John T. Masterson, Warden	\$ 5 00	
Edward B. Pierce, Warden.....	5 00	
Edward Ellingwood, Clerk.....	5 00	
Charles L. Knapp, Clerk.....	5 00	
	<hr/>	
<i>Amounts carried forward</i>	\$ 20 00	\$1,184 00

Amounts brought forward..... \$ 20 00 \$1,184 00

Paid for SERVICES OF WARD
OFFICERS:

WARD FIVE.

To Joseph P. Battles, Inspector	3 00	
P. H. Doyle, Inspector.....	3 00	
Edward Ellingwood, Inspector....	3 00	
Michael J. Lynch, Inspector.....	3 00	
James Kelley, Warden.....	10 00	
John W. Anderson, Clerk.....	5 00	
Allen Buckminster, Clerk.....	5 00	
Henry J. Draper, Inspector.....	3 00	
George L. Fowler, Inspector.....	6 00	
Andrew J. Lynch, Inspector.....	3 00	
Thomas G. Gerrish, Jr., Warden..	10 00	
C. G. Coburn, Clerk.....	10 00	
John H. Lynch, Inspector	6 00	
Morton N. Peabody, Inspector....	3 00	
Edward A. Robinson, Inspector...	3 00	
	<hr/>	96 00

WARD SIX.

To Hugh F. Fletcher, Warden.....	\$ 10 00	
Alfred Gilman, Jr. Clerk.....	10 00	
Dennis Collins, Inspector.....	6 00	
E. A. Wilson, Inspector.	6 00	
Edward Burns, Warden.....	10 00	
Ralph F. Brazer, Clerk.....	10 00	
Asa W. Meade, Inspector.....	6 00	
Charles E. McDonald, Inspector..	6 00	
Michael J. Noonan, Warden.....	10 00	
William F. Wilder, Clerk.....	10 00	
Frank Brown, Inspector.....	6 00	
David Barry, Inspector.....	3 00	
Charles H. Hobson, Inspector.....	3 00	
	<hr/>	96 00

Paid for SERVICES OF CLERKS,
JANITORS, ETC. :

To Stephen J. Kirby, for services in City Treasurer's Office.....	\$948 36
Stephen C. Gallagher, for services in City Treasurer's office.....	274 00

Amounts carried forward..... \$1,222 36 \$1,376 00

Amounts brought forward..... \$1,222 36 \$1,376 00

Paid for SERVICES OF CLERKS,
JANITORS, ETC.:

To William J. Reardon, for services in City Treasurer's office.....	167 00
Andrew G. Stiles, for services in City Treasurer's office.....	378 00
Lysson Gordon, for services as As- sistant City Clerk.....	10 96
Guy Morey, for services as As- sistant City Clerk.....	762 62
Belle C. Hill, for services in City Clerk's office.....	468 00
Sarah W. Paige, for services in City Clerk's office.....	3 00
Alice M. Gage, for services in City Auditor's office,.....	468 00
James W. Cummiskey, for services as clerk for Committee on State Aid.....	78 00
Hubert M. Potter, for services as clerk for Committee on State Aid.....	715 00
Patrick F. Sullivan, for services as clerk for Board of Assessors..	966 97
Matthew H. Gilroy, for services as clerk in Assessors' office.....	39 88
James B. Hovey, for services as clerk in Assessors' office.....	39 88
James S. Horne, for services as clerk in Assessors' office.....	39 88
Joseph F. Mulcahey, for services as clerk in Assessors' office.....	250 25
William J. Reardon, for services as clerk in Assessors' office...	264 00
Robert L. Read, for services as clerk in Assessors' office.....	349 25
Octave L. Gaudette, for services as interpreter for Assessors.....	12 00
Matthew H. Gilroy, for services as clerk for Registrars of Voters,	65 00
Henry Hoole, for services as clerk for Registrars of Voters.....	40 00
Joseph F. Mulcahey, for services as clerk for Registrars of Voters.....	65 00

Amounts carried forward..... \$6,405 05 \$1,376 00

Amounts brought forward..... \$6,405 05 \$1,376 00

Paid for SERVICES OF CLERKS,
JANITORS, ETC.:

To James S. Murphy, for services as clerk for Registrars of Voters,	72 50	
Jerome B. Melvin, for services as clerk for Registrars of Voters,	38 75	
Grant M. Palmer, for services as clerk for Registrars of Voters,	28 75	
Robert L. Read, for services as clerk for Registrars of Voters,	38 75	
Thomas R. Garity, for services as Probation officer.....	300 00	
Fred N. Edgell, for ascertaining the number of births in Ward 6, in 1884.....	22 40	
James Marren, for ascertaining the number of births in Ward 1, in 1884	26 20	
John E. Maguire, for ascertaining the number of births in Wards 4 and 5, in 1884.....	63 00	
Michael H. McClue, for ascertaining number of births in Ward 3, in 1884.....	44 10	
William W. Read, for ascertaining the number of births in Ward 2, in 1884.....	22 10	
George S. Mowe, for services as Janitor at City Hall.....	37 50	
William M. Riley, for services as Janitor at City Hall.....	910 00	
John E. Smith, for services at City Hall.....	25 00	
F. Boynton, for services as Janitor of Ward-room.....	16 00	
David G. Common, for services as Janitor of Ward-room.....	4 00	
Thomas Hanafin, for services as Janitor of Ward-room.....	2 00	
Andrew Maguire, for services as Janitor of Ward-room.....	14 00	
John H. Quinn, for services as Janitor of Ward-room.....	3 00	
Cornelius Regan, for services as Janitor of Ward-room.....	5 00	
<i>Amounts carried forward</i>	<u>\$8,098 10</u>	<u>\$1,376 00</u>

<i>Amounts brought forward.....</i>	\$8,098 10	\$1,376 00
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Paid for SERVICES OF CLERKS,
JANITORS, ETC. :

To Thomas Rodgers, for services as Janitor of Ward-room.....	57 87	
John F. Sparks, for services as Janitor of Ward-room.....	6 00	
Aaron Scadding for services as Janitor of Ward-room.....	4 00	
George Teel, for services as Janitor of Ward-room.....	8 00	
J. A. Witherell, for services as Janitor of Ward-room.....	2 00	
George J. Wyman, for services as Janitor of Ward-room.....	2 00	
	<hr/>	8,177 97

Paid for FUEL :

To Appropriation for Schools, for coal	381 97	
Appropriation for Roads and Bridges, for labor.....	71 00	
Appropriation for Paupers, for wood	10 00	
William E. Livingston, for coal,..	490 49	
	<hr/>	953 46

Paid for DAMAGES, COSTS, ETC. :

To Appropriation for Police, for assist- ance rendered City Solicitor,.	520 00
George F. Lawton, City Solicitor, for expenses in sundry cases,	171 20
Nathan D. Pratt, City Solicitor, for expenses in sundry cases	23 86
H. C. Pike, for summoning witness- es, use of team, etc.....	166 50
E. M. Haskell, for services in case of John T. Weeks.....	4 00
Henry Kileski, for serving notices	3 98
George F. Stiles, for services.....	5 00
John G. Scott, for services as sten- ographer,.....	45 00
I. I. Doane, for condensed evidence in case of Middlesex Co., vs City,	232 85

<i>Amounts carried forward.....</i>	\$1,172 39	\$10,507 43
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Amounts brought forward..... \$1,172 39 \$10,507 43

Paid for DAMAGES, COSTS, ETC.:

To G. E. Evans, for expenses in case of Middlesex Co., vs City,...	5 45	
L. M. Norton, for examinations and analyses of Concord river water,	38 55	
M. G. Parker, for analyzing mud from Concord river, and expert testimony,.....	45 00	
Charles H. Davis, for services in case of Rogers vs City,.....	5 00	
G. J. Bradt, for professional services and expert testimony,...	70 00	
Charles F. Carr, for expert testimony,	5 00	
Leonard Huntress, for professional services and expert testimony,	95 00	
William M. Hoar, for expert testimony,.....	25 00	
J. C. Irish, for professional services and expert testimony...	50 00	
Gilman Kimball, for professional services.....	10 00	
George E. Pinkham, for expert testimony.....	37 00	
Charles A. Savory, for professional services.....	10 00	
Mary Calman, for personal injuries.....	50 00	
Johanna Cluin, for personal injuries.....	165 00	
Celina Derosier, for personal injuries.....	100 00	
Mary Garrigan, for personal injuries.....	150 00	
Bridget Malone, for personal injuries.....	150 00	
Lizzie Mooney, for personal injuries.....	150 00	
Mary Quinn, for personal injuries,	150 00	
Ella R. Richards, for personal injuries.....	200 00	
		2,683 39
<i>Amount carried forward</i>		\$13,190 82

Amount brought forward \$13,190 82

Paid for SUNDRIES AT BURIAL
GROUNDS:

To Appropriation for Schools, for coal,	\$ 6 17	
Appropriation for Paupers, for coal	7 00	
Appropriation for Roads and Bridges, for labor.....	532 63	
Appropriation for Sewers, for sewer, assessment, Mammoth road.....	49 50	
Appropriation for Water Works, for pipe, fittings and labor....	242 07	
Appropriation for Water Works, for water.....	118 15	
Appropriation for Public Buildings, for labor.....	7 00	
Burnham & Moran, for lumber and labor	1 48	
Amasa Pratt & Co., for stakes.....	19 77	
Whitney & Tibbetts, for lumber..	90	
John C. Bennett for hardware and paint	96	
Bartlett & Dow, for snow shovel..	40	
Frederick Taylor Co., for hardware,	2 29	
H. R. Barker, for hose and washers	60	
John Drew, for blacksmithing....	3 45	
C. B. Coburn & Co., for oil, cord, etc	1 40	
Lowell Rubber Co., for sprinkler..	1 00	
John Little, for cash paid for key,	25	
J. B. Cover & Co., for grass seed and phosphate.....	7 50	
P. M. Jefferson & Co., for ashes..	15 12	
B. P. Marshall, for gravel.....	25 15	
George Suttle, for cutting grass...	81 50	
Samuel Wood, for whitewashing tomb.....	3 00	
Andrew Irvine, for labor.....	4 50	
Simeon Kelley, for labor.....	3 75	
John Little, for labor.....	713 25	
James F. Robinson, for labor.....	4 50	
John Sullivan, for labor.....	8 75	
John F. Webster, for labor.....	103 50	
	<hr/>	1,965 54
<i>Amount carried forward</i>		<hr/> \$15,156 36

Amount brought forward..... \$15,156 36

Paid for MEMORIAL EXERCISES
FOR GEN. U. S. GRANT:

To Appropriation for Roads and Bridges, for labor.....	\$ 4 00	
Appropriation for Public Build- ings, for nails and labor	52 23	
Burnham & Moran, for lumber....	70 39	
A. L. Brooks & Co., for lumber...	2 80	
Charles E. Adams, for nails.....	45	
Lowell Mechanic Phalanx, for firing salutes.....	75 00	
Carter's Band, for services.....	191 50	
Merrimac House, for entertain- ment of Carter's Band.....	15 50	
Owen Bros., for music and arrang- ing music.....	25 00	
Atkins & Harmon, for carriage hire	2 00	
E. H. Morse, for carriage hire....	76 00	
A. G. Pollard, for cambric and damage to goods.....	134 30	
S. M. Patterson, for decorating....	20 00	
A. E. Murphy, for crape badges...	84 75	
Mrs. L. E. Stimpson, for crape....	2 50	
J. W. White, for sashes and batons,	14 25	
Campbell & Hanseom, for advertis- ing.....	7 87	
Citizen Newspaper Co., for adver- tising	8 25	
Democrat Office, for advertising...	2 50	
Lowell Weekly Sun, for advertis- ing.....	4 00	
Morning Mail Co., for printing and advertising.....	14 60	
Marden & Rowell, for advertising, .	2 75	
Vox Populi Press, for printing and advertising	15 75	
C. H. Hanson & Co., for teaming..	13 50	
D. P. Knowlton, for teaming.....	50	
T. G. Little, for teaming.....	2 50	
Daniel McCarthy, for teaming....	3 00	
McDonald & Mason, for teaming..	2 10	
James Nixon, for teaming.....	1 00	
		848 99
<i>Amount carried forward</i>		\$16,005 35

Amount brought forward \$16,005 35

Paid far SUNDRIES AT HUNTINGTON HALL:

To Appropriation for School-houses, for lumber	\$ 2 82	
Appropriation for Paupers, for coal,	7 00	
Appropriation for Police, for services of officers.....	213 75	
Appropriation for Public Buildings, for labor.....	102 35	
Appropriation for Water Works, for water.....	70 00	
Badger & Holmes, for lumber and labor	2 80	
Bartlett & Dow, for hardware.....	70	
Frederick Taylor & Co., for hardware, tools, etc.....	25 97	
H. R. Barker, for repairing gas fixtures	5 30	
John Gilchrist, for pipe, fittings, packing and labor.....	7 16	
S. G. Mack & Co., for repairing range.....	5 00	
Samuel Young, for burners, repairing lighting apparatus etc.....	102 50	
Adams & Co., for chair, mirrors, matting, etc.....	53 52	
Benner Bros., for matting.....	18 00	
G. S. Merrill, for repairing furniture	33 00	
Sherman & Manning, for lignum..	38 33	
Offutt & Whitaker, for matting, mirror, etc.....	17 17	
C. B. Coburn & Co., for alcohol, can, rope, blocks, waste, brooms, brushes, etc.....	22 00	
French & Puffer, for cuspadores...	5 00	
L. S. Kimball, for hand grenades.....	15 00	
H. Hosford & Co., for canton flannel	4 50	
A. G. Pollard, for cotton cloth....	23	
Coughlin & Co., for diary.....	1 35	
J. Merrill & Son, for blank books and stationery.....	2 45	
<i>Amounts carried forward</i>	\$755 90	\$16,005 35

Amounts brought forward..... \$755 90 \$16,005 22

Paid for SUNDRIES AT HUNTINGTON HALL:

To Citizen Newspaper Co., for envelopes and printing	2 75
George O. E. French, for cash paid shears, mucilage and postage.	3 15
Harry Raynes, for badge.....	1 50
William E. Livingston, for coal...	12 00
D. M. Prescott, for whitening....	32 25
McDonald & Mason, for teaming..	2 50
Samuel Tompkins, for teaming....	4 50
B. & L. R. R., for transportation..	10 56
B. & L. R. R., for ground rent of Huntington and Jackson halls,	475 00
Hardwood Manufacturing Co., for settees.....	440 00
Sundry persons for labor, as follows:	
John F. Cosgrove.....	42 50
George O. E. French	867 50
George L. Adams.....	69 00
John Breen	43 50
John Cassidy.....	5 25
Joseph F. Convery.....	7 40
John Conway.....	1 50
Martin Cornock.....	43 00
George W. Clement.....	34 00
John J. Dolan.....	49 00
John Donahue.....	6 75
John Dawson.....	5 00
Charles Fairweather.....	65 25
Robert S. Fulton.....	48 50
Charles F. Furlong.....	4 00
Frank Hall.....	38 25
Luther Harvey	40 00
Eugene King.....	30 75
Edward Lanetot.....	4 00
Eugene F. Morrill.....	9 50
Fred F. Munn.....	49 50
George Malley.....	42 50
Charles E. Smith.....	588 50
Albert G. Smith.....	24 00
William N. Thompson.....	7 50
George H. Wilkins.....	18 50

Amounts carried forward..... \$3,885 26 \$16,005 35

Amounts brought forward..... \$3,885 26 \$16,005 35

Paid for SUNDRIES AT HUNTINGTON HALL:

To Mary Daven.....	11 40	
Jane Duffey.....	35 35	
Mary Kellary	1 60	
Kate Mealey.....	1 60	
Kate Marshall.....	22 40	
Kate McCafferty.....	1 60	
Catherine McDonald	1 10	
Kate Monahan.....	2 50	
Ellen McCarty.....	1 30	
Ellen Tully	3 50	
Sarah J. Smith.....	50 05	
	<hr/>	4,017 66

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for labor.....	\$341 80	
Appropriation for Sewers and Drains, for labor.....	263 62	
Appropriation for Public Buildings, for labor.....	191 47	
Appropriation for Library, for feather dusters	8 10	
Appropriation for Water Works, for water.....	821 25	
Badger & Holmes, for lumber and labor	4 40	
George McQuesten & Co., for lum- ber	27 82	
John C. Bennett, for hardware....	84	
Bartlett & Dow, for hardware and tools	12 15	
Fairbanks, Brown & Co., for scale,	160 00	
H. B. Shuttuck, for hardware....	1 19	
Frederick Taylor & Co., for hard- ware, etc.....	15 60	
Merrinack River Savings Bank, for safe.....	50 00	
O. E. Averill, for blacksmithing...	1 00	
H. R. Barker, for globes, chim- neys, iron and labor.....	71 10	
L. A. Derby & Co., for repairing lighting apparatus.....	9 15	
	<hr/>	<hr/>
<i>Amounts carried forward</i>	\$1,979 49	\$20,023 01

Amounts brought forward..... \$1,979 49 \$20,023 21

Paid for SUNDRIES:

To Richard Dobbins, for inspecting boilers.....	4 00
John Gilchrist, for pipe, fittings and labor	4 71
S. G. Mack & Co., for pipe, stop- pers and labor.....	5 84
T. Regan, for fire rakes.....	8 50
O. A. Richardson, for key.....	1 50
Scannell & Wholey, for labor on boilers	2 00
N. J. Wier & Co., for repairing stove	2 15
H. H. Wilder & Co., for milk cans, Samuel Young, for services on Po- lice Telegraph.....	3 00
Standard Cancelling Ballot Box Co., for keys, ink, and repair- ing boxes.....	9 00
H. B. & H. M. Bacon, for repairing clock	11 10
Cluin & Allen, for repairing clocks, Russell S. Clifford, for repairing clock	1 00
Alvin Lawrence, for repairing stamps and cleaning clock....	2 00
Belknap & Co., for stamps.....	1 75
J. M. Fellows, for repairing stamps	2 75
Carleton & Hovey, for thermome- ters, fans, soap, matches, etc..	16 00
Albert Crowell, for matches.....	2 50
C. B. Coburn & Co., for gold leaf, sponge, tape, pails, brushes, etc	12 46
O. Duckworth, for twine.....	2 40
Fiske & Spalding, for shade, fix- tures, dusters, pencils, etc....	20 13
French & Puffer, for tub, brooms and lamp.....	21
F. H. Butler & Co., for bottles and chemicals	24 38
Frank C. Goodale, for paper.....	4 90
Hamilton Drug Store, for soap....	2 70
P. M. Jefferson & Co., for soap....	8 00
	8 60
	13 00

Amounts carried forward..... \$2,154 07 \$20,023 01

Amounts brought forward..... \$2,154 07 \$20,023 01

Paid for SUNDRIES :

To C. W. Lerner & Co., for disinfectant and purifying powder....	30 32
E. A. McQuade, for chimney.....	05
C. A. Mitchell & Co., for blacking,	1 50
John A. Roark, for soap.....	22 75
Swan & Smith, for blacking and brush.....	3 25
E. Burgess, for pencils.....	1 00
Bacheller, Dumas & Co., for blank books, binding, etc.....	390 23
F. P. Coggeshall, for stationery, etc.....	86 70
Coughlin & Co., for stationery, etc.	35 85
H. C. Church & Son, for blank books, stationery, etc.....	38 88
Josiah T. Corner for New England Directory	6 00
James A. Colby, for envelopes....	12 00
O. L. Cambridge, for ink, pencils, penholders, etc	16 40
Citizen Newspaper Co., for blank books, and two copies "Daily Citizen"	292 57
Campbell & Hanscom, for blank book and two copies "Morning Times"	37 75
H. H. Faxon, for twelve copies "License Law"	3 05
Harrington Bros., for blank books postals, printing, etc.....	37 75
C. F. Hatch & Co., for envelopes and paper boxes.....	13 00
George F. King & Merrill, for pencils.....	5 00
Littlefield & Pease, for paper boxes,	3 20
Lowell Rubber Type Co., for autographs and rubber.....	9 50
Lowell Daily Courier, for two copies "Daily Courier".....	12 00
Marden & Rowell, for blank book, postals and envelopes.....	13 75
Morning Mail Co., for blank books, printing, binding and two copies of "Morning Mail"....	113 95

Amounts carried forward..... \$3,340 47 \$20,023 01

Amounts brought forward..... \$3,340 47 \$20,023 01

Paid for SUNDRIES:

Marston & Prince, for rubber bands and one copy of "Boston Post"	11 20	
J. Merrill & Son, for blank books, stationery directories, mucilage, rubber bands, etc.....	79 88	
Sampson, Murdock & Co., for Boston directory.....	5 00	
Vox Populi Press, for blank books, postals, envelopes, printing, etc.....	131 75	
Vox Populi Office, for envelopes and printing.....	5 85	
W. H. Worcester, for blank books,	3 75	
Winkley, Dresser & Co., for adhesive paper.....	5 00	
New England Telephone and Telegraph Co., for telephone service.....	248 48	
Adams & Co., for rug, carpet lining and repairing chairs.....	11 00	
Offutt & Whitaker, for lounge and mat.....	11 50	
Shea & McOsker, for bracket.....	20	
Charles I. Taylor & Co., for book case.....	48 00	
Standard Steam Lowell Carpet Beater and Cleanser Co., for cleaning and laying carpet....	6 20	
Abels & Son, for crape.....	1 25	
H. Hosford & Co., for binding and thread.....	90	
O'Donnell & Gilbride, for towels..	3 00	
A. G. Pollard, for tarleton and use of cloth for draping.....	31 78	
S. M. Patterson, for decorating City Hall.....	22 00	
United States Bunting Co., for flag	16 50	
Daniel Gage, for ice.....	24 00	
Hutchins & Co., for watering street.....	13 00	
George Hedrick, for care of High Street clock.....	50 00	
Page & Nunn, for refreshments...	4 00	
<i>Amounts carried forward</i>	4,074 71	\$20,023 01

RESERVED FUND.

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Amounts brought forward..... \$4,074 71 \$20,023 01

Paid for SUNDRIES:

To Michael Duffy, for damage to clothing and labor.....	3 00
S. A. Proper, for damage to goods,	11 00
David Fitzgerald, for summoning witnesses	1 08
David Chase, for cash paid for pens, postage and rent of P. O. box	12 20
Samuel M. Chase, for cash paid for stationery, postage, expressing, eye-glasses, etc.....	22 31
C. P. Dadman, for cash paid for telegrams, key, rubber bands, brush, postage, rent of P. O. box, etc.....	23 80
John Ewing, for cash paid for stamps and rent of P. O. box..	2 00
James Marren, for cash paid for twine and traveling expenses..	9 71
David W. O'Brien, for cash paid for postage, expressing and teaming.....	17 55
H. M. Potter, for cash paid for traveling expenses, blank books, rubber bands, inkstand, etc.....	36 90
Van B. Sleeper, for cash paid for traveling expenses, postage, telegrams, etc	187 54
Patrick F. Sullivan, for cash paid for traveling expenses, postage, pens, etc.....	94 30
H. W. Streeter, for cash paid for traveling expenses.....	1 70
Henry A. Piper, for services as expert accountant.....	128 80
W. P. Atwood, for analyses of milk and vinegar	26 00
Alvin A. Hanscom, for cash paid for chemical apparatus, traveling expenses, postage, etc....	271 75
Middlesex Registry of Deeds, for recording.....	8 25

Amounts carried forward..... \$4,932 60 \$20,023 01

Amounts brought forward..... \$4,932 60 \$20,023 01

Paid for SUNDRIES :

To A. F. & C. H. Burns, for rent of voting place.....	40 00	
Charles H. Bent, for rent of voting place	30 00	
Solon Bartlett, for reporting births,	13 25	
G. J. Bradt, for reporting births..	1 50	
Ralph M. Cole, for reporting births,	75	
C. A. Daly, for reporting births...	10 00	
J. B. Field, for reporting births...	50	
W. S. Foss, for reporting births...	2 75	
A. A. Gelineau, for reporting births.....	11 25	
William M. Hoar, for reporting births.....	1 75	
J. W. Huntoon, for reporting births	1 25	
Stephen J. Johnson, for reporting births	5 25	
Herbert S. Johnson, for reporting births	4 75	
W. A. Johnson, for reporting births	75	
William H. Lathrop, for reporting births,.....	5 75	
William B. Jackson for reporting births	5 00	
Catherine Loftus, for reporting births	4 75	
A. W. LaVigne, for reporting births	22 00	
T. E. McOwen, for reporting births,	3 00	
Roderick Mignault, for reporting births	5 25	
J. W. Pearson, for reporting births,	25	
Mrs. L. C. Pitts, for reporting births	75	
D. N. Patterson, for reporting births	75	
C. H. Ricker, for reporting births,	3 00	
James F. Sullivan, for reporting births	14 00	
J. P. Swaby, for reporting births..	3 75	
O. N. Willard, for reporting births,	50	
Mrs. J. S. Anderson, for witness fee	60	
<i>Amounts carried forward</i>	\$5,125 70	\$20,023 01

Amounts brought forward..... \$5,125 70 \$20,023 01

Paid for SUNDRIES:

To Mrs. George Baron, for witness fee,	60
Ira M. Chase, for witness fee.....	60
Michael Corbett, for witness fee...	60
S. K. Dexter, for witness fee and expenses.....	2 00
Peter H. Doyle, for witness fee...	60
John J. Donovan, for witness fee..	60
Frank J. Donohoe, for witness fee,	60
John Ewing, for cash paid, Joseph S. Anderson.....	60
M. J. Fletcher, for witness fee....	60
George M. Foster, for witness fee.	60
F. T. Greenhalge, for witness fee.	60
H. F. Keyes, for witness fee	60
Edwin Lamson, for witness fee...	60
William A. Lang, for witness fee.	60
John W. McEvoy, for services as clerk at Pauper Investigation in 1884.....	42 00
John Nolan, for witness fee.....	60
Lorenzo Phelps, for witness fee...	60
J. Frank Page, for witness fee....	60
William H. Parker, for witness fee,	60
John P. Quinn, for witness fee....	60
Julius A. Stiles, for witness fee...	60
Joseph E. Shanley, for witness fee	60
Van B. Sleeper, for witness fee...	60
Thomas E. Ward, for witness fee.	60
Lowell Mechanic Phalanx, for firing salutes July 4.....	150 00
George Brady, for ringing bell July 4.....	3 00
Charles M. Stimpson, for ringing bell July 4.....	3 00
Herbert E. Webster, for chiming bell July 4.....	10 00
Posts 42 and 120 G. A. R., per resolution, for observance of Memorial Day.....	300 00
Charles T. Lewis, for cleaning windows.....	3 90
Kate Sullivan, for labor at City Hall.....	351 72

Amounts carried forward..... \$6,004 52 \$20,023 01

Amounts brought forward..... \$6,004 52 \$20,023 01

Paid for SUNDRIES :

To Mary Sullivan, for labor at City Hall	13 60	
Jane Green, for amount paid over and above the taxes, costs and interest on her estate sold for non-payment of taxes of 1879,	32 00	
Luther E. Shepard, for amount paid over and above the taxes, costs and interest on estate of A. Stevens sold for non-payment of taxes of 1883 and 1884....	2 05	
Atkins & Harmon, for carriage hire	25 00	
Charles Clapp, for carriage hire...	5 00	
C. H. Hanson & Co., for carriage hire and teaming.....	6 50	
E. H. Morse, for carriage hire....	29 50	
Phoenix Livery and Boarding Stable, for carriage hire.....	4 50	
George Richardson, for carriage hire	46 00	
P. H. Brady, for teaming.....	6 00	
John J. Harrington, for teaming..	6 00	
D. P. Knowlton, for teaming.....	1 00	
James Leach, for teaming.....	10 00	
T. G. Little, for teaming.....	6 00	
Daniel McCarthy, for teaming....	75	
George H. McNabb, for teaming..	2 00	
McDonald & Mason, for teaming..	1 50	
James Nixon, for teaming.....	13 00	
William Roberts, for teaming....	6 50	
G. E. Stanley, for transportation..	6 03	
Samuel Tompkins, for teaming...	5 50	
Lovejoy-Paul Express, for transportation.....	3 35	
U. S. and C. Express, for transportation	2 05	
B. & L. R. R., for transportation..	4 06	
		6,242 41
Whole expenditure for the year.....		\$26,265 42
<i>Amount carried forward</i>		\$26,265 42

RESERVED FUND.

93

Amount brought forward \$26,265 42

TRANSFERS.

To Appropriation for Schools.....	\$6,494 96	
Appropriation for fire Depart- ment.....	1,506 09	
Appropriation for Lighting.....	2,242 82	
Appropriation for Health.....	3,328 50	
Salaries	390 04	
	<hr/>	13,962 41
Balance undrawn Jan. 1, 1886.....		19,783 60
		<hr/>
		\$60,011 43
		<hr/> <hr/>

P A U P E R S .

Balance undrawn Jan. 1, 1885.....	\$ 5,669 85	
Appropriated and assessed in 1885....	55,000 00	
	<hr/>	\$60,669 85

R E C E I P T S .

Received into the TREASURY ON ACCOUNT OF PAUPERS :

From Appropriation for Schools, for lumber, wood, etc.....	\$146 89	
Appropriation for Roads and Bridges, for fuel.....	40 25	
Appropriation for Police, for wood	7 50	
Appropriation for Fire Depart- ment, for wood.....	17 50	
Appropriation for Lighting, for coal	7 00	
Appropriation for Public Build- ings, for wood.....	7 00	
Reserved Fund, for fuel.....	24 00	
Commonwealth, for support of State Paupers.....	578 41	
Commonwealth, for temporary support of State Paupers...	258 90	
Commonwealth, for burial of State Paupers,.....	930 00	
City of Boston, for aid rendered Rose McGuinness, Elizabeth Shaw, Mary Murphy, Mrs. Daniel McCarty, Ann Brown and child. Mrs. William Jones, Thomas F. Barry. William Jones, James Gar- ner, Jeremiah D. Coffey,		
<i>Amounts carried forward.....</i>	<hr/> \$2,017 45	<hr/> \$60,669 85

Amounts brought forward..... \$2,017 45 \$60,669 85

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From William Harrington and Thomas McDermott,.....	229 59
City of Cambridge, for aid rendered Mary Collins,.....	26 00
City of Chelsea, for board of John P. Tully at Reform School,.....	30 26
City of Fall River, for aid rendered Mary A. Burns, Bridget Flaherity, Henry Goslin and wife, and Thomas Leeson,.....	74 20
City of Fitchburgh, for aid rendered Catherine Lawless, Daniel Rock and wife, Daniel Reynolds and board of Frank Reynolds and Michael Sullivan at Reform School,	189 33
City of Gloucester, for aid rendered Anastasia Arundel, and W. H. H. Thomas,....	64 50
City of Lawrence, for aid rendered Mrs. Joseph Daily, Mary Gallagher, Barbara McDonald, Mary A. Wefens, Mary Kelley and family, Margaret Donahoe, Mary A. Shea, Mrs. William Woodward, Julia A. Sullivan, Bridget Holland, Mary McLean, Annie Donovan, Annie and Henry Mullen, Michael Hester, John R. Allen and family, Henry Bethol, Daniel Donahoe, and Thomas Cummings,.....	495 57
City of Lynn, for aid rendered Mary Shehan,.....	21 50
City of Malden, for board of Herbert W. Henderson, Frank Harrington, and Joseph McGrath at Reform School,.....	116 98

Amounts carried forward..... \$3,265 38 \$60,669 85

Amounts brought forward..... \$3,265 38 \$60,669 85

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From City of New Bedford, for aid rendered Reuben Chapman,	47 00
City of Somerville, for aid rendered Thomas Lyon, and board of Andrew Collins, George McIntire, Frank McIntire, William Kelley, Fred Jennings, Thomas Jennings, George H. Moore, and Roger Sullivan at Reform School,.....	783 33
City of Salem, for aid rendered Esther P. Wellman, Jane Sullivan, and William H. Trask and wife,.....	46 50
City of Springfield, for aid rendered Lottie J. Nellis, Patrick O'Connor and children, and burial of Lillle Rossolo,	122 00
City of Waltham, for aid rendered Edward Valley and wife.....	28 00
Town of Amesbury, for aid rendered Matthias Noon and wife,.....	33 50
Town of Barnstable, for aid rendered Jennie Small,.....	17 70
Town of Billerica, for aid rendered Fred Mallinson, Mary J. Wright, Ellen Murphy, and Fred Murphy,.....	30 00
Town of Barre, for aid rendered Samuel F. Lilley,.....	8 29
Town of Clinton, for aid rendered Elizabeth Smith, Mrs. John O'Toole, Maggie O'Toole, Catherine Taylor, Mary McLaughlin, and board of William Bartlett, Alex Risdell and Patrick Tully at Reform School,.....	464 01
Town of Canton, for aid render-	

Amounts carried forward..... \$4,845 71 \$60,669 85

Amounts brought forward..... \$4,845 71 \$60,669 85

Received into the TREASURY ON
ACCOUNT OF PAUPERS :

From	ed Ellen Daniels and Mary Duncan,.....	20 80	
	Town of Chelmsford, for aid rendered Elizabeth Donahoe and children, Damas LaDuke and wife and Fred G. Russell,.....	132 21	
	Town of Chicopee, for aid rendered Joanna Stoughton and John Cohatan,.....	30 00	
	Town of Danvers, for aid rendered Mrs. William Henderson and Ann Welch,.....	255 50	
	Town of Dedham, for aid rendered Nancy Morse,.....	101 00	
	Town of Dracut, for aid rendered Jeremiah Kittredge,....	127 14	
	Town of East Bridgewater, for aid rendered Catherine Quinn,.....	18 50	
	Town of Everett, for board of Thomas Shields at Reform School,....	34 29	
	Town of Falmouth, for aid rendered Albert F. Stanton,...	2 00	
	Town of Holden for aid rendered Mrs. Godfrey Lavalley,	82 35	
	Town of Lynnfield, for aid rendered George A. Abbott,...	44 50	
	Town of Manchester for aid rendered Ann Quinn,....	95 00	
	Town of Medford, for board of James Kelty at Reform School,.....	68 00	
	Town of Milford, for aid rendered Margeret Quinn,.....	6 50	
	Town of Melrose, for aid rendered Lawrence Reardon,....	31 04	
	Town of Marlborough, for board of William Drinkwine, Delphéus Bourdilais at Reform School,.....	271 03	
	<i>Amounts carried forward</i>	<u>\$6,165 57</u>	<u>\$60,669 85</u>

<i>Amounts brought forward.....</i>	\$6,165 57	\$60,660 85
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Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From Town of Methuen, for burial of Edward Burke,.....	10 00
Town of Natick, for aid rendered Ella Witherell,.....	48 00
Town of Stoneham, for aid rendered Mrs. Francis McRann and board of James F. Maguer at Reform School,	83 29
Town of South Hadley, for aid rendered Mrs. Joseph Kelley,.....	2 00
Town of Tewksbury, for aid rendered Mrs. Anthony McDonald,.....	61 50
Town of Weymouth, for aid rendered Catherine Slattery and Hannah Handly	62 50
Town of Woburn, for board of Charles F. Onion and John Hennesy at Reform School,	115 31
Town of Walpole, for aid rendered George Clark and family,.....	188 50
Town of Wellesley, for aid rendered Martha Roy,.....	75 00
Town of Wakefield, for board of Michael Donahoe and Joseph M. Hulburt at Reform School,	244 25
Town of Webster, for aid rendered Charles H. Mellen,...	5 71
Town of Winchendon for burial of Stanley Martin,.....	5 00
Flora S. Bartlett, for support of Lusylvia Bartlett at Worcester Lunatic Hospital,....	92 02
Wilder Bennett, for support of Carolin A. Bennett at Almshouse,	211 71
A. Y. Caswell, for support of Mary A. Caswell at Worcester Lunatic Hospital,.....	169 46

<i>Amounts carried forward.....</i>	\$7,539 82	\$60,669 85
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Amounts brought forward..... \$7,539 82 \$60,669 85

Received into the TREASURY ON
ACCOUNT OF PAUPERS:

From Estate of Oren G. Coburn, for support of Oren G. Coburn at Almshouse,.....	45 00
Estate of Charles Donnelly, for support of Charles Donnelly at Almshouse,.....	16 71
Maria Greaves, for support of Ann Curley at Almshouse,.	156 87
Daniel P. Galloupe, for support of Sarah J. Griffin at Worcester Lunatic Hospital,...	68 05
Matthias Hutchins, for support of Harriet Hutchins at Almshouse,.....	169 46
L. F. Jewell, for support of Eleanor B. Parker at Worcester Lunatic Hospital,...	50 00
Elbridge Livingston, for support of Albert Livingston at Almshouse,.....	169 46
Leonard J. Labounty, for support of Mercena Hallet at Almshouse,	5 00
John H. McAlvin, for support of Wilbur L. Bates at Worcester Lunatic Hospital,...	46 33
Mrs. Charles E. Nickles, for support of Charles E. Nickles at Danvers Lunatic Hospital and at Almshouse....	296 22
F. H. Penniman, for support of Hannah Penniman at Almshouse.....	130 36
F. C. Plunkett, for support of John Cuddihey at Danvers Lunatic Hospital.....	106 85
Mrs. Thomas Regan, for support of Thomas Regan at Danvers Lunatic Hospital.	43 18
James Sykes for support of Ann Sykes at Almshouse.....	138 92
W. W. Tuttle, for support of Catherine Flynn at Alm-	

Amounts carried forward..... \$8,982 23 \$60,669 85.

Amounts brought forward..... \$8,982 23 \$60,669 85

Received into the TREASURY ON
ACCOUNT OF PAPERS:

	house and aid rendered Nan-		
	cy Lewis, Maggie Albert and		
	John Coggins.....	226	55
From	Adams Coburn, for stone.....	10	00
	George S. Cushing, for sale of		
	pill boxes.....	13	75
	Nathan D. Pratt, for money re-		
	ceived by him on account of		
	Nancy Lewis in 1884.....	187	50
	Albert Pindar, for sales from		
	farm	688	81
	Albert Pindar, for board of		
	horse	65	57
	Ruth Baily, for overdraft.....		71
	Oliver Pippin, for overdraft....	1	75
	Elizabeth Vose, for overdraft...	6	00
	Daniel Bonner, for wood.....	2	00
	Patrick Devlin, for wood.....	2	00
	Thomas Holland, for wood.....	2	00
	Patrick Hanafin, for wood.....	4	00
	Mortimer Lyons, for wood... .	8	00
	Daniel McCleary, for provisions		
	and fuel	12	55
	Thomas Quirk. for wood.....	2	00
	Abram Raynor, for provisions		
	and wood.....	9	00
	William Scully, for wood.....	2	00
			10,226 42
			\$70,896 27

EXPENDITURES.

Paid SECRETARY OF THE
BOARD OF OVERSEERS OF
THE POOR:

To	Leonard F. Jewell, salary.....	\$ 83	33
	Woodbridge W. Tuttle, salary....	916	67
			\$1,000 00
	<i>Amount carried forward</i>		\$1,000 00

PAUPERS.

101

Amount brought forward \$1,000 00

Paid for SERVICES AT ALMS-
HOUSE:

To Albert Pindar, Superintendent, salary	\$1,740 77	
F. J. O'Donoghue, Chaplain, and Teacher of Reform School	870 42	
M. E. Sexton, Teacher of Reform School	488 08	
Sundry persons, for labor, as per pay-rolls	3,788 24	
	<hr/>	6,887 51

Paid for FUEL AT ALMSHOUSE:

To Reserved Fund, for wood from Edson Cemetery	\$ 15 00	
A. B. Buttrick, for wood	309 00	
William E. Livingston, for coal	1,272 53	
O. C. R. R., for freight on coal	103 88	
	<hr/>	1,700 41

Paid for GRAIN, GROCERIES,
PROVISIONS, ETC. AT ALMS-
HOUSE:

To Coggin, Kidder & Co., for flour and oatmeal	\$3,787 15	
J. B. Cover & Co., for flour	1,700 00	
S. K. Dexter, for flour	45 00	
W. P. Foye, for corn, meal, oats, and shorts	234 73	
John J. Mehan, for flour	5 75	
William E. Livingston, for corn, meal, oats and shorts	593 72	
Joseph Miller & Co., for meal	84 23	
Joseph Miller, for meal and corn ..	83 56	
Stiles Rogers & Co., for meal and corn	167 92	
Edward N. Wood & Co., for meal, corn, fine feed, salt, etc	692 75	
Buttrick & Co., for groceries	1,226 74	
Hartwell & Co., for groceries	147 35	
P. Keyes & Son, for groceries	144 74	
Nichols & Fletcher, for groceries ..	1,406 59	
Charles Nichols, Jr., & Co., for tea,	375 10	
	<hr/>	
<i>Amounts carried forward</i>	\$10,695 33	9,587 92

Amounts brought forward..... \$10,695 33 \$ 9,587 92

Paid for GRAIN, GROCERIES,
PROVISIONS, ETC., AT ALMS-
HOUSE:

To S. S. Sleeper & Co., for groceries..	368 40	
Robert Simpson, for groceries.....	627 64	
W. H. I. Hayes, for tobacco.....	244 63	
S. C. Patrick, for snuff.....	26 05	
Coffey Bros., for beans and butter.	35 90	
Donovan & Co., for peas.....	95 00	
Levi Hancock & Son, for peas and beans.....	237 82	
McPherson & Kendall, for beans..	170 40	
G. N. & E. Nichols, for beans.....	521 95	
M. Corbett, for provisions and fruit	470 45	
Ira M. Chase, for beef.....	204 96	
W. T. Downing, for beef.....	56 00	
Farrell Bros., for beef.....	346 37	
H. Farrell & Son, for beef and poultry.....	76 39	
G. M. Foster, for butter.....	108 83	
Albert Hill, for beef and poultry.	65 06	
Jewett & Swift, for beef, pork, etc.	2,487 39	
Leonard A. Treat, for fish.....	940 81	
A. F. Wright, for beef, provisions, etc.....	251 91	
Charles W. Wilder, for salt and curing hams.....	4 72	
French Bros., for fish.....	15 00	
E. M. Grant, for fish.....	34 00	
S. P. Pike, for fish.....	15 00	
M. B. Randlett, for fish.....	90 03	
Grant & Pennell, for fish and crack- ers	78 61	
Mrs. S. A. Scripture, for crackers.	11 70	
McCarty Bros., for beef.....	129 90	
Thomas Roark, for beef and pork..	417 08	
E. W. Hall, for strawberries.....	2 50	
Ingham & Co., for fireworks.....	13 98	
Killpartrick Bros., for fireworks..	26 00	
		18,869 81
<i>Amount carried forward</i>		\$28,457 73

Amount brought forward..... \$28,457 73

Paid for CLOTHING, DRY GOODS,
ETC. :

To W. P. Brazer & Co., for hose, mit-		
tens, etc.....	\$ 90 00	
Cutter & Walter Manfg. Co., for		
suspenders.....	5 00	
Putnam & Son., for caps, hats and		
clothing	240 80	
Cook, Taylor & Co., for dry goods.	11 64	
J. P. Folsom & Co., for dry goods.	882 74	
H. Hosford & Co., for dry goods..	370 60	
A. G. Pollard, for dry goods.....	226 09	
Charles O. Richardson, for shoes..	9 90	
Hapgood Wright, for boots and		
shoes.....	782 45	
Willard A. Brown, for leather,		
cement and findings.....	56 75	
	<hr/>	2,675 97

Paid for DRUGS AND MEDICINES
AT ALMSHOUSE :

To F. H. Butler & Co., for medicine,		
vaccine points, etc.....	\$ 30 89	
C. F. Blanchard, for medicine.....	16 30	
Carleton & Hovey, for drugs,		
medicines and soap.....	256 57	
A. W. Dows & Co., for hops.....	1 60	
National Plaster Co., for plasters.	15 58	
Herbert E. Webster, for drugs....	21 25	
	<hr/>	342 19

Paid for SUNDRIES AT ALMS-
HOUSE:

To Appropriation for Schools, for desks,		
chairs and black board mater-		
ial	\$183 00	
Appropriation for Roads and		
Bridges, for shoeing horses...	27 53	
Appropriation for Public Buildings,		
for labor.....	4 00	
Appropriation for Water Works,		
for water	912 45	
	<hr/>	
<i>Amounts carried forward</i>	\$1,126 98	\$31,475. 89

Amounts brought forward..... \$1,126 98 \$31,475 89

Paid for SUNDRIES AT ALMS-
HOUSE :

To Burnham & Moran, for lumber.....	793 37
Davis & Sargent, for lumber.....	53 40
Amasa Pratt & Co., for lumber, doors and windows.....	123 07
Charles E. Adams, for hardware..	1 02
Bartlett & Dow, for hardware, tools, bells, seeds, etc.....	296 35
John C. Bennett, for wringer.....	9 50
Charles T. Haskell, for keys.....	7 50
Rice & Co., for screens and wire cloth.....	45 48
Frederick Taylor & Co., for hard- ware	16 70
H. R. Barker, for drop light, shade, etc	5 50
T. Costello & Co., for grates, lin- ings, coal hods, kettles, cans, solder, labor, etc.....	82 40
Richard Dobbins, for castings and repairing boilers.....	57 53
T. R. Garity & Co., for pipe, fit- tings, packing labor, etc.....	262 24
M. V. B. Libby, for shoeing horses,	83 30
Pevey Bros., for castings.....	29 22
Scannell & Wholey, for castings, iron, labor, etc.....	67 98
W. H. Ward, for blacksmithing...	47 64
Thomas Walkden, for watering- pot.....	1 25
H. H. Wilder & Co., for gas stove, tinware, rubber tubing, etc...	7 83
G. F. Allen, for sponge, oil, and re- pairing harnesses.....	32 05
J. E. Conant & Co., for harness...	31 50
H. F. Ebert, for bells and repairing harnesses	27 42
Fay Bros., for harness, robes, blankets, brushes, etc.....	93 00
Boutwell Bros., for springs.....	1 30
Amos Green, for wheel and repair- pairing carriage.....	57 00
G. F. Hill, for repairing carriages,	7 65

Amounts carried forward..... \$3,368 18 \$31,475 89

<i>Amounts brought forward</i>	\$3,368 18	\$31,475 89
Paid for SUNDRIES AT ALMS- HOUSE:		
To I. O. Ramsdell, for repairing car- riage.....	1 75	
A. L. Warren, for repairing car- riage.....	38 73	
Adams & Co., for pillows and mat- tress.....	29 25	
E. Hapgood & Son, for excelsior...	54 25	
Lowell Rubber Co., for rubber blankets.....	11 00	
Sherman & Manning, for furniture, carpeting, bedding and feath- ers.....	97 29	
Sargent Invalid Furniture Co., for invalid bedstead and mattress	33 75	
John Welch, for furniture.....	26 00	
John A. Clark, for baskets, pails, brushes, brooms, etc.....	58 00	
C. B. Coburn & Co., for oil, alcohol, japan, whiting, brushes, rope, waste, packing, etc.....	155 02	
W. A. Dickinson, for soap and soap powder.....	152 86	
Fiske & Spalding, for paper hang- ings, shades and fixtures.....	10 61	
French & Puffer, for paper bags, paper and chimneys.....	101 63	
John M. Galvin, for blacking and can.....	7 00	
Josiah Gates & Sons, for oil, coup- lings, and repairing hose.....	16 00	
P. M. Jefferson & Co., for soap and soap stock.....	199 88	
L. S. Kimball, for hand grenades.	20 00	
Lamson & Pinder, for crockery, spoons, knives, forks, pails, dippers, buttons, needles, thread, etc.....	298 24	
C. P. Talbot & Co., for ammonia and demijohn.....	3 34	
Talbot Dyewood & Chemical Co., for ammonia, chloride lime, etc...	80 65	
F. P. Coggeshall, for pens.....	1 25	
<i>Amounts carried forward</i>	<u>\$4,764 68</u>	<u>\$31,475 89</u>

Amounts brought forward..... \$4,764 68 \$31,475 89

Paid for SUNDRIES AT ALMS-
HOUSE:

To J. Merrill & Son, for stationery, pencils and ink.....	9 38	
Campbell & Hanscom, for advertis- ing.....	4 25	
Citizen Newspaper Co., for adver- tising	2 00	
Morning Mail Co., for advertising,	4 12	
Marden & Rowell, for advertising,	3 74	
Lowell Daily Courier, for one copy one year.....	6 00	
Charles Clapp, for difference be- tween horses exchanged	550 00	
John Lannon, for cows.....	175 00	
Estate of Josiah Vose, for cow....	37 00	
Frank W. Cheney, for milk.....	12 95	
David C. Howard, for milk.....	183 40	
George L. Fowler, for ice.....	17 76	
Daniel Gage, for ice and plank....	67 32	
Page & Nunn, for cake	4 50	
Lowell Gas Light Co., for gas.....	678 91	
N. E. Telephone and Telegraph Co., for telephone service.....	41 75	
Town of Chemsford, for taxes of 1885	34 40	
Russell S. Clifford, for spectacles and cleaning clocks	6 35	
F. G. Morse, for cabbage plants...	2 50	
E. Sheppard & Sons, for trees, shrubs and plants.....	21 05	
S. D. Butterworth, for mason work and material.....	104 19	
Franck C. George, for mason work and material.....	161 56	
William E. Livingston, for lime, cement, hair, etc.....	97 28	
Staples Bros., for drain pipe and trap.....	6 48	
A. G. Adams & Co., for killing and cutting up hogs.....	25 00	
O. Blodgett, for killing and cutting up hogs	24 75	
Israel L. Putnam, for making cider	21 59	

Amounts carried forward..... \$7,067 91 \$31,475 89

Amounts brought forward..... \$7,067 91 \$ 31,475 89

Paid for SUNDRIES AT ALMS-
HOUSE:

To Edward J. Commerford, for appraising property.....	15 00	
Martin O'Hearn, for appraising property	20 00	
Albert Pindar, for cash paid for travelling expenses, postage teaming, etc.....	40 22	
Robert Wood, for professional services.....	9 00	
J. L. Noyes & Son, for use of sleigh and wagon.....	26 00	
J. F. Convery, for labor.....	89 43	
C. G. Day, for labor.....	36 00	
Dennis Whaley, for labor.....	500 50	
William H. Wiggin, for labor.....	9 20	
B. and L. R. R., for transportation	9 74	
B. & M. R. R., for transportation.	32 89	
	<hr/>	7,855 89

Paid on ACCOUNT OF FREE DISPENSARY:

To T. C. Walker, for services as clerk, and cash paid for washing, medicine, etc.....	\$315 11
Carleton & Hovey, for medicine...	48 81
Ellingwood & Co., for medicine...	260 15
George C. Goodwin & Co., for medicine.....	36 90
C. R. Kimball, for medicine.....	93 01
R. J. Lang, for medicine.....	43 80
P. Dempsey & Co., for whiskey and brandy.....	17 50
P. Lynch, for wine, whiskey and brandy	57 75
Buttrick & Co., for sugar.....	4 00
Coffey Bros., for sugar.....	4 20
Nichols & Fletcher, for sugar and barrel	21 20
Edward N. Wood & Co., for flaxseed meal.....	3 00
O'Donnell & Gilbride, for cloth...	1 00

Amounts carried forward..... \$ 906 43 \$39,331 78

Amounts brought forward..... \$ 906 43 \$39,331 78

Paid on ACCOUNT OF FREE DISPENSARY :

To A. G. Pollard, for towels, cloth, and batting.....	3 53	
Codman & Shurtleff, for surgical instruments, etc.....	49 18	
C. B. Coburn & Co., for glycerine, alcohol, olive oil, duster, etc..	52 53	
Adams & Robinson, for table.....	10 00	
H. F. Ebert, for cushions for surgical table.....	5 00	
H. R. Barker, for pipe, fittings and labor	17 40	
Frederick Taylor & Co., for lock..	1 25	
Campbell & Hanscom, for printing,	28 00	
Citizen Newspaper Co., for printing.....	6 75	
Marden & Rowell, for printing...	2 00	
Morning Mail Co., for envelopes and printing.....	17 25	
	<hr/>	1,099 32

Paid for SERVICES OF PHYSICIANS OUT OF ALMSHOUSE:

To Charles Dutton.....	\$ 7 50	
W. G. Eaton.....	73 50	
John C. Irish.....	5 00	
Herbert S. Johnson.....	68 20	
W. A. Johnson.....	32 16	
William B. Jackson.....	10 00	
T. E. McOwen.....	49 99	
H. P. Perkins, Jr.....	51 77	
F. C. Plunkett.....	5 00	
Charles H. Ricker.....	108 97	
Hermon J. Smith.....	30 00	
C. A. Viles.....	172 44	
	<hr/>	614 53

Paid for COFFINS, INTERMENTS, ETC. :

To Appropriation for Public Buildings, for labor.....	\$284 67
Otis Allen & Son, for lumber.....	12 84
Burnham & Moran, for lumber....	46 83

Amounts carried forward..... \$ 334 34 \$41,045 63

Amounts brought forward..... \$ 334 34 \$41,045 63

Paid for COFFINS, INTERMENTS,
ETC:

To A. L. Brooks & Co., for lumber...	22 66	
A. P. Bateman, for lumber.....	24 42	
Howe Bros. & Co., for lumber....	14 36	
Amasa Pratt & Co., for lumber...	42 32	
John C. Bennett, for hardware...	1 75	
H. B. Shattuck, for hardware.....	67	
Frederick Taylor & Co., for hard- ware	1 82	
C. B. Coburn & Co., for shellac, al- cohol, and asphaltum.....	24 01	
H. Hosford & Co., for cloth.....	6 31	
A. G. Pollard, for cloth.....	2 28	
William L Lockhart, for trim- mings, etc.....	112 37	
C. T. Chamberlin, for services as undertaker	15 50	
J. B. Currier, for services as under- taker	47 00	
Peter Davey, for excelsior and ser- vices as undertaker.....	105 96	
F. Martin & Son, for services as undertaker.....	129 15	
J. H. McDermott, for services as undertaker.....	23 00	
James F. O'Donnell, for services as undertaker.....	42 00	
Michael Collins, for labor.....	1 00	
U. S. & C. Express, for transporta- tion	1 00	
James Leach, for teaming.....	25	
	<hr/>	962 17

Paid for FUEL, LABOR, ETC., AT
WOOD YARD:

To Sundry persons, for labor as per pay rolls	\$2,269 66	
Appropriation for Schools, for wood	9 00	
Appropriation for Roads and Bridges, for labor, board of horse and use of wagon and harness	2,440 80	
A. B. Buttrick, for wood.....	77 00	
	<hr/>	
<i>Amounts carried forward</i>	\$4,796 46	\$42,007 80

Amounts brought forward..... \$4,796 46 \$42,007 80

Paid for FUEL, LABOR, ETC., AT
WOOD YARD:

To Brown Lumber Co., for wood.....	60 00	
Daniel Gage, for wood.....	3,211 24	
J. L. Noyes & Son, for wood.....	81 00	
C. F. Shugrue, for wood.....	63 94	
Thomas Varnum, for wood.....	844 63	
George B. Whitney, for wood....	135 75	
L. Smith, for measuring wood....	2 50	
Burnham & Moran, for lumber....	3 06	
Badger & Holmes, for rungs for saw-horses.....	2 50	
Frederick Taylor & Co., for hard- ware and tools.....	10 03	
C. T. Haskell, for saws and filing	13 50	
C. B. Coburn & Co., for baskets...	3 50	
H. C. Church & Son, for blank book	20	
F. P. Coggeshall, for blank book..	65	
Charles H. Hanson, for cash paid for traveling expenses.....	1 20	
	<hr/>	9,230 16

Paid for SUPPORT OF SUNDRY
PERSONS:

To John M. Fiske, for support of per- sons in Middlesex County House of Correction.....	\$405 71	405 71
Essex County, for support of per- sons at House of Correction..	\$ 10 14	10 14

To Commonwealth of Massachusetts,
for support of sundry persons,
as follows: In Danvers Lunatic
Hospital—Mary E. McCabe,
Peter J. Ahern, R. Adams,
Clement Gendreau, H. Maddocks,
and Thomas Reagan. In Taunton
Lunatic Hospital—Rose A. Davis—
In State Workhouse—John
Mulvey, Joseph Neal, and

Amount carried forward..... \$51,653 81

Amount brought forward..... \$51,653 81

Paid for SUPPORT OF SUNDRY
PERSONS:

Michael Sullivan. In State
Reform School—William H.
Allen, William Bradley,
Charles W. Donahue, Owen
Flynn, Arthur C. George,
Michael Howard. John J.
Howard, Hugh Lawn, John H.
Mitchell, Cornelius McGuire,
Thomas Molone, James F. Mc-
Loughlin, Thomas Maloney,
Conie Quinn, James Quimby,
John Rangier, Fred T. Rus-
sell, Edward Shea, Michael
Scanlon, and James Vander-
pant. In State Primary
School—Lester A. Thompson.
In State Industrial School—
Mary A. Barry, Delia Conway,
Margaret Carney, Mary Cal-
lanan, Annie Fahey, Mary A.
Gillon, Blanche Marshall, Mary
Mullaney, and Mary A.
Nugent.....

\$1,413 55

1,413 54

Danvers Lunatic Hospital, for sup-
port of Elenora E. Parish,
Catherine O'Donoghue, Mary
E. McCabe, Ellen Cashman,
Susan R. Adams, Michael Con-
ley, Charles L. Davenport,
John Cuddihey, Thomas Rea-
gan, and Peter J. Ahern.....

\$780 90

780 90

To Northampton Lunatic Hospital,
for support of Jane Callanan.

\$ 32 44

32 44

Taunton Lunatic Hospital, for sup-
port of Richard Brennan.....

\$212 24

212 25

Worcester Lunatic Hospital, for
support of Mary A. Caswell,
Lusylvia T. Bartlett, Flora
Bethune, Sarah J. Griffin, Al-

Amount carried forward

\$54,092 94

<i>Amount brought forward</i>		\$54,092 94
Paid for SUPPORT OF SUNDRY PERSONS :		
len McKinley, and Wilbur L. Bates.....	\$551 16	
	<hr/>	551 16
To Lowell Hospital Association, for support of Carrie C. Keeler..	\$ 17 50	
	<hr/>	17 50
City Orphan Asylum, (Salem), for support of John Gannon and William Gannon.....	\$132 00	
	<hr/>	132 00
St. Peter's Asylum, for support of Lizzie Gallagher, Lizzie Gleason, Nellie Gleason, Annie Earls, Nellie Earls, Sarah Earls, Mary Moran, Lizzie Moran, Annie Eagan, Katie Devine and Nellie Devine	\$754 60	
	<hr/>	754 60
St. John's Hospital, for support of Laura DeCoigne, Bridget Ryan, Catherine Mohan, Nellie York, Mary Ward, Mary Murphy, Hannah Sullivan, Mary Mulligan, Annie Whalen, Maria Conway, Ellen Foley, Jane Coburn, Mary McGrady, Vannie Johnson, Margaret Carr, Jane Callen, Mary Choate, Honora Kelleher, Bridget Boland, Catherine Turner, Margaret McManus, Bridget Courtain, Margaret Carr, Rose Burns, Catherine McGrath, Mary Conlon, Julia O'Neil, Lucy Burns, Mary Dorfer, Mary Olsen, Mary Scully, Annie O'Brien, Millie Fagnant, Rose Cote, Alice McMullen, Mary Short, Maria Kelley, Mary McDonald, Hannah Haggerty, Anne Tully, Maria Garvey, Anne Collins, Mary Shaughnessy, Catherine, Shields, Margaret Albert,		
<i>Amount carried forward</i>		<hr/> \$55,548 20

Amount brought forward \$55,548 20

Paid for SUPPORT OF SUNDRY
PERSONS :

Maria McDermott, Catherine Rock, Zuphina Lunka, Thomas Fahey, William Jones, Joseph Mason, John Mooney, Albert Lamy, Patrick Collins, and Charles Turksham	\$2,688 75	
	<hr/>	2,688 75

Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS :

To City of Boston, for aid rendered Sadie Odelle, Jacintha Bowles, Joanna Gannon, Hannah D. Drake, Mary E. Gates, Mary McNamara and sister, Ann S. Roberts, Charlotte A. Bolton, Elizabeth Johnson, Maggie LeClair, Lizzie Reed, Melissa P. Clogston (burial), Mary Madden, Ella Ogg, Mary Mead, William H. Kenniston, Thomas Moran, Millard F. Packard, Daniel Crowley, John Leonard, Charles A. Hope, Patrick Crowley, Thomas Lannahan, James O'Sullivan, Joseph Hope, Thomas Mc- Namara, Michael Dolan, Horace N. Philbrick, and burial of Kidder child, Will- iam Connell, and George H. Proctor	\$630 71	
City of Brockton, for aid rendered Geneva L. Brush and children,	43 58	
City of Chelsea, for aid rendered family of David Banks	10 00	
City of Cambridge, for aid rendered Addie V. Conway, Michael Sheridan and family, J. H. Campbell, and James O'Sul- livan	32 67	
	<hr/>	
<i>Amounts carried forward</i>	\$716 96	\$58,236 95

<i>Amounts brought forward.....</i>	\$716 96	\$58,236 95
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Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PEBSONS :

To City of Fall River, for aid rendered Mary McNulty, Catherine McNulty, Mary Nolan, Bridget Mulvey, Rose Feeley, Timothy Feeley, Patrick Mulvey, and William Gillon.....	219 75	
City of Haverhill, for aid rendered Luther C. George.....	38 00	
City of Lynn, for aid rendered Mrs. Samuel C. Morey, Mrs. Lyman J. Morey, Catherine Smith, Rose Donovan, and Edwin G. Howe	344 25	
City of Lawrence, for aid rendered Agness Cuff and child, Lizzie Martin and daughter, Mary England, Maggie Cooker, John Reagan and family, and burial of Phineas S. Gibson...	286 42	
City of Newton, for aid rendered Mrs. Ellen Barry.....	9 88	
City of New Bedford, for aid rendered Ann Barry, and John Barry	7 80	
City of Newburyport, for aid rendered John J. Morrison and family, John Dyer and family, William Rich and family and James Hogan.....	278 20	
City of Springfield, for aid rendered Frank Bradley, and Michael Moran	7 98	
City of Salem, for aid rendered Mrs. H. L. Caswell.....	60 00	
City of Somerville, for aid rendered Mrs. Michael Sullivan and family	18 35	
City of Worcester, for aid rendered Solon Webster.....	1 50	
Town of Chelmsford, for aid rendered Winifred Boynton.....	7 34	
<i>Amounts carried forward.....</i>	<u>\$1,996 43</u>	<u>\$58,236 95</u>

Amounts brought forward..... \$1,996 43 \$58,236 95

Paid CITIES AND TOWNS FOR
AID RENDERED SUNDRY
PERSONS:

To Town of Hyde Park, for aid rendered Rose A. Davis and Jennie Jurian.....	7 00	
Town of Hudson, for aid rendered Mrs. John T. Bushee and family.....	108 75	
Town of Methuen, for aid rendered Mrs. William E. Harris.....	8 00	
Town of Peabody, for aid rendered Richard C. Robinson, children of George Chase and child of Patrick Fox.....	224 65	
Town of Pittsfield, for aid rendered W. G. Malon, and E. King,	17 08	
Town of Swansey, for aid rendered Mrs. Bowker.....	19 02	
Town of Tewksbury, for aid rendered David Rogers.....	3 00	
Town of Winchendon, for aid rendered John F. Sullivan and family.....	3 00	
Town of Weymouth, for aid rendered Nathan A. Reed.....	52 00	
	<hr/>	2,438 93

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF THE
ALMSHOUSE:

To Ruth Baily, for board of Harry Hale.....	\$ 5 71	
Charles W. Battles, for board of Elizabeth Williams, and child	5 00	
Bridget Bagshaw, for care of Annie Wilson.....	3 00	
C. E. Bohonan, for moving sundry persons.....	2 80	
John E. Baker, for care of Charles Baker.....	30 00	
Mrs. Summer Briggs, for assistance in cash.....	12 00	
<i>Amounts carried forward</i>	<hr/> \$ 58 51	<hr/> \$60,675 88

Amounts brought forward..... \$ 58 51 \$ 60,675 88

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF
THE ALMSHOUSE:

To Fannie Clifford, for assistance in cash.....	8 43	
Kate Curry, for care of Kate McIntee	103 42	
Henry J. Cain, for board of William H. Moran.....	10 00	
Sabina Cain, for board of William H. Moran.....	50 00	
Mary J. Clark, for board of Jones children	208 57	
Luther C. Copp, for moving furniture, etc.....	6 95	
Angelina Chandler, for board of Rose Whamond.....	10 00	
Eliza A. Desmazes, for board of Arthur Spofford.....	52 17	
James Devine, for assistance in cash	120 00	
Mrs. Willard Dudley, for assistance in cash	108 00	
Mrs. John Delude, for board of Delude children.....	154 00	
Margaret Dunnigan, for assistance in cash.....	6 00	
Maria Farrell, for board of children of Patrick Welch and Michael Farrell	211 87	
Mrs. James Gerry, for board of children of Julia Welch.....	104 30	
Paulina Glidden, for board of Mabel Hoyt.....	56 60	
F. C. Gill for moving furniture....	50	
Mrs. William Henderson, for assistance in cash.....	72 00	
James Harrington, for moving furniture.....	1 50	
Margaret Kelley, for board of Brown children.....	60 00	
Susan Kelley, for board of Jennie Small and child.....	12 25	
Timothy Kelley, for moving furniture.....	1 00	

Amounts carried forward..... \$1,416 07 \$60,675 88

Amounts brought forward..... \$1,416 07 \$60,675 88

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF
THE ALMSHOUSE:

To D. H. Laporte, for moving furniture,	1 50
Thomas Lyons, for assistance in cash.....	20 00
Kate Liddell, for board of Cather- ine Griffin	5 54
F. S. Ladd, for moving furniture..	2 00
Mrs. Francis McKann, for assist- ance in cash.....	5 00
Nancy Morse, for assistance in cash.....	72 00
Lizzie Mahon, for board of Eliza- beth Shaw.....	58 48
Jane McQuade, for assistance in cash	104 30
Alexander McDonald, for moving furniture	3 00
Charles McCullough, for rent of tenement	4 00
Frank Meehan, for moving fur- niture.....	1 00
Sarah McNulty, for care of Kate McIntee.....	24 92
Elijah Mixer and wife, for assist- ance in cash.....	56 00
Catherine McKenna, for care of Kate McIntee.....	82 50
J. W. O'Brien, for assistance in cash.....	16 00
Mary Olwell, for board of William Martin Tucker.....	80 00
Horace Osgood, for moving Kate McIntee.....	28 00
Mrs. Patrick O'Brien, for assist- ance in cash.....	6 00
Jane A. L. Patch, for board of Amelia Lew.....	47 74
Oliver Pippin for moving furniture,	1 75
Ann Quinn, for assistance in cash and board of Marietta Quinn..	96 00
John Reagan, for moving furni- ture	1 50

Amounts carried forward..... \$2,133 30 \$60,675 88

Amounts brought forward..... \$2,133 30 \$60,675 88

Paid for AID RENDERED SUN-
DRY PERSONS OUT OF
THE ALMSHOUSE:

To Catherine Roach, for assistance in cash.....	30 00	
Martha Roy, for assistance in cash.....	60 00	
Mary Roark, for board of Lawrence Reardon.....	29 14	
S. C. Smiley, for board of Mrs. Hattie York and Leanna York,	14 00	
Elizabeth Shaw, for assistance in cash.....	28 35	
Hannah W. M. Teel, for board of Fred M. Burns.....	65 22	
Catherine Tyng, for board of Amelia Lew.....	4 43	
George Thorpe, for moving furniture.....	1 50	
Elizabeth Vose, for assistance in cash.....	33 00	
Mrs. William Wainwright, for assistance in cash.....	36 00	
Ella Witherell, for assistance in cash.....	48 00	
Lizzie Waugh, for board of child of Waldo Waugh.....	20 00	
Adelaide Webster, for board of Fred Mason.....	2 25	
Mrs. A. S. Webster, for cash paid for travelling expenses.....	5 00	
M. A. Whittier, for board of Mabel Richardson and Harry Rice..	60 00	
B. and L. R. R., for transportation.....	3 45	
O. C. R. R., for transportation....	3 45	
	<hr/>	2,577 09

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE
OVERSEERS OF THE POOR:

To Joseph S. Anderson, for caps.....	\$ 80	
Edward Burns, for groceries.....	4 00	
Boynton & Page, for groceries....	15 00	
	<hr/>	
<i>Amounts carried forward</i>	\$ 19 80	\$63,252 97

Amounts brought forward..... \$ 19 80 \$63,252 97

PAID FOR SUPPLIES FURNISHED
ON ORDERS FROM THE
OVERSEERS OF THE POOR:

To Belvidere Cash Store, for groceries,	2 00
Barney & Co., for groceries.....	2 00
Charles Bent, for groceries.....	12 00
John E. Berry, for bedding.....	3 00
Buttrick & Co., for groceries.....	45 00
J. Courtney & Son, for groceries..	11 00
C. G. Coburn, for groceries.....	9 00
J. F. Callahan, for groceries.....	166 00
C. H. Callahan, for groceries.....	2 00
F. H. Chandler, for groceries.....	10 00
S. W. Churchill, for groceries.....	28 00
M. Corbett, for groceries.....	26 00
P. Duggan & Son, for groceries...	4 00
Donovan Bros., for groceries.....	13 12
Fuller & Clark, for groceries.....	43 00
Greenwood Bros., for groceries....	2 00
N. Gallagher, for milk.....	1 40
Gaudette Bros., for groceries.....	4 00
George W. Hurd, for groceries....	125 00
B. F. Hale, for groceries.....	6 00
Albert Hill, for groceries....	34 00
G. W. Harrington, for groceries...	4 00
William Hovey, for boots.....	1 50
F. J. Joyce, for groceries.....	30 00
A. B. Kendall, for groceries.....	2 00
William Kittredge, for fuel.....	9 70
James F. Kelty, for groceries.....	8 00
P. Keyes & Son, for groceries.....	236 00
Frank Kenny, for groceries.....	2 00
Lowell Rubber Co., for bandages..	1 40
Lowell Gas Light Co., for coke....	36 00
McCarty Bros., for groceries.....	6 00
M. Murphy, for groceries.....	6 00
Thomas Miles, for groceries.....	12 00
William McAloon, for groceries...	180 16
A. McSorley, for groceries....	29 00
Timothy McCarthy, for groceries..	54 00
S. G. Mack & Co. for stove, pipe, etc	12 75
E. A. McDonald, for groceries....	3 00
John McCluskey, for groceries....	4 00

Amounts carried forward..... \$1,205 83 \$63,252 97

Amounts brought forward..... \$1,205 83 \$63,252 97

Paid for SUPPLIES FURNISHED
ON ORDERS FROM THE
OVERSEERS OF THE POOR:

To McDonald Bros., for groceries.....	2 00	
E. A. McQuade, for groceries.....	2 00	
William McLoughlin, for groceries,	4 00	
Nichols & Fletcher, for groceries..	2 00	
J. O'Dwyer, for groceries.....	117 00	
O'Sullivan Bros., for shoes.....	5 00	
Lydia Phillips, for milk.....	2 30	
E. G. Parker, for groceries and fuel	10 00	
S. P. Pike, for provisions.....	2 00	
Thomas Roark, for groceries.....	2 00	
Charles F. Robinson, for groceries	12 00	
Anthony Robinson, for groceries..	4 00	
C. T. Rowland, for groceries.....	4 99	
C. E. Shorey & Co., for groceries..	19 00	
Sheldon & Pearson, for groceries..	3 00	
Stiles & Co., for groceries.....	165 00	
Stickney and Spofford, for grocer- ies	98 48	
William H. Shedd, for milk.	5 52	
Savage Bros., for groceries.....	2 70	
J. B. Trueworthy, for shoes.....	25 10	
J. C. Tolman, for groceries.....	22 00	
Albert Wheeler & Co., for groce- ries	2 00	
Hapgood Wright, for boots and shoes	6 35	
Wood & Locke, for groceries.....	20 00	
S. L. & W. G. Ward, for extracting teeth	3 50	
Benjamin Patch, for R. R. tickets,	135 75	
B. & M. R. R., for tickets.....	27 82	
O. C. R. R., for tickets.....	1 85	
	<hr/>	1,913 19

Paid for SUNDRIES OUT OF THE
ALMSHOUSE:

To Appropriation for Roads and Bridges, for moving safe.....	\$ 20 00	
Appropriation for Water Works, for water for Nancy Lewis....	6 00	
<i>Amounts carried forward</i>	<hr/> \$ 26 00	<hr/> \$65,166 16

Amount brought forwards..... \$ 26 00 \$65,166 16

Paid for SUNDRIES OUT OF THE
ALMSHOUSE:

To L. F. Jewell, for cash paid for traveling expenses, postage and telegram.....	6 28	
W. W. Tuttle, for cash paid for traveling expenses, R. R. tickets, postage, blank book, etc.....	28 84	
James F. Walsh, for services in office of Secretary of Overseers of the Poor.....	780 00	
James F. Walsh, for cash paid for pens.....	3 00	
John F. Wright, for expense of moving William F. Winn to Soldiers' Home, Chelsea.....	6 00	
F. C. Gill, for labor.....	50	
N. E. Teleph. and Teleg. Co., for telephohe service.....	28 00	
Carleton & Hovey, for trusses.....	6 50	
Coughlin & Co., for pens and ink.	3 20	
F.P.Coggeshall, for paper and pens,	1 60	
Citizen Newspaper Co., for blank books, postal cards and printing.....	108 87	
Morning Mail Co., for books, printing and binding.....	32 81	
Marden & Rowell, for blank books.....	3 50	
Vox Populi Office, for blank books and printing.....	12 75	
G. T. Williams, for safe.....	75 00	
C. F. Keyes, for carriage hire.....	1 00	
C. E. Bohonan, for carriage hire..	1 00	
E. H. Morse, for carriage hire....	20 95	
	<hr/>	1,145 80
Whole expenditure for the year.....		\$66,311 96
Balance undrawn Jan. 1, 1886.....		4,584 31
		<hr/>
		\$70,896 27
		<hr/>

P O L I C E .

Balance undrawn Jan. 1. 1885.....	\$ 4,185 98	
Appropriated and assessed in 1885....	52,000 00	
	<hr/>	\$56,185 98

R E C E I P T S .

Received into the TREASURY ON ACCOUNT OF POLICE :

From Appropriation for Commons, for services of officers.....	\$ 22 50	
Appropriation for Health, for ser- vices of officers.....	47 50	
Appropriation for Water Works, for services of officers.....	62 50	
Reserved Fund, for services of of- ficers	733 75	
Samuel P. Hadley, Clerk of Police Court, for fine for illegal sale of oleomargarine, and fees of police officers.....	3,231 02	
James F. Savage, Clerk of Police Court, for fees of police of- ficers	5,349 37	
J. G. Favor, City Marshall, for ser- vices of officers, and sale of cloth and horse.....	2,022 83	
Frederick Taylor, for services of officer	2 50	
Richard B. Allen, for wagon...	40 00	
James Olney, for overdraft.....	2 50	
	<hr/>	11,514 47
		<hr/>
		\$67,700 45
		<hr/> <hr/>

EXPENDITURES.

Paid CITY MARSHAL AND POLICE JUSTICE :

To M. E. McDonald, City Marshal, salary.....	\$ 23 29	
Jacob G Favor, City Marshal, salary.....	1,676 71	
Nathan Crosby, Police Justice, salary.....	16 67	
Samuel P. Hadley, Police Justice, salary.....	83 33	
	<hr/>	\$1,800 00

Paid for SERVICES OF POLICE OFFICERS :

To Frank Wood, Deputy Marshal....	\$1,160 61	
Thomas E. Allen.....	887 50	
Levi Brown.....	891 25	
William G. Bumps.....	910 00	
Cyrus M. Beals.....	876 25	
Josiah S. Blood.....	808 75	
James Boyle.....	861 25	
Eloi N. Breault.....	483 75	
Peter T. Corcoran.....	905 00	
Cornelius E. Collins.....	907 50	
B. Eugene Cheney.....	887 50	
Peter Cawley.....	888 75	
John Creahin.....	895 00	
Cornelius E. Clark.....	92 50	
James Dunlavey.....	843 75	
George F. Dunlavey.....	911 25	
Peter Donohoe.....	570 00	
John Durrough.....	843 75	
John M. Dunfey.....	491 25	
John J. Doherty.....	453 75	
Daniel D. Driscoll.....	80 00	
John S. Dennett.....	292 50	
George R. Davis.....	1,007 12	
Albert F. Elliott.....	893 75	
Edward Fox.....	907 50	
Henry Farrington.....	888 75	
Patrick Fitzpatrick.....	917 50	
John J. Flaherty.....	875 00	
<i>Amounts carried forward.....</i>	<hr/>	\$21,431 48 \$ 1,800 00

Amounts brought forward..... \$21,431 48 \$ 1,800 00

Paid for SERVICES OF POLICE
OFFICERS:

To	John C. Furlong.....	912 50
	Jacob G. Favor.....	40 00
	David H. Goodhue.....	892 50
	William H. Grady.....	872 50
	Willis L. Gardner.....	890 00
	Dennis F. Gallivan.....	847 50
	Enoch N. Grinnell.....	888 75
	John Garity.....	45 00
	Charles Gregg.....	991 12
	Frank Goodwin.....	1,001 00
	Charles Howard.....	1,117 87
	Daniel M. Hayes.....	1,001 00
	Alexander W. Harper.....	997 50
	John Hickson.....	892 50
	Cornelius Howard.....	915 00
	Alfred M. Holman.....	900 00
	James E. Holland.....	875 00
	Thomas Ingalls.....	805 00
	William B. Jones.....	917 50
	William R. Kew.....	900 00
	James Kennedy.....	45 00
	Isaac L. Libby.....	882 50
	Albert E. Libby.....	897 50
	Daniel W. Lane.....	855 00
	Charles Laflamme.....	976 50
	George W. Marshall.....	865 00
	William B. Moffatt.....	886 00
	James McLoughlin.....	896 25
	James McNabb.....	878 75
	James A. McQuade.....	808 75
	William McCarron.....	421 25
	John H. McKay.....	510 00
	John McDonald.....	478 75
	Cornack McIntee.....	441 25
	John F. McCaffrey.....	77 50
	John O'Connell.....	887 50
	Peter F. O'Donnell.....	803 75
	Alonzo J. Page.....	914 75
	Henry C. Pike.....	908 75
	Charles C. Packard.....	232 50
	Napoleon Provencher.....	481 25
	Thomas F. Ring.....	716 25
	James Riley.....	873 75

Amounts carried forward..... \$53,872 22 \$ 1,800 00

Amounts brought forward..... \$53,872 22 \$ 1,800 00

Paid for SERVICES OF POLICE
OFFICERS :

To Thomas J. Sanborn.....	908 75	
Herbert P. Streeter.....	848 75	
Timothy Sullivan.....	45 00	
John W. Tilton.....	908 75	
Herman N. Tilton.....	611 25	
Philip H. Tighe.....	43 75	
Joseph B. Varnum.....	890 00	
John A. Walsh.....	905 00	
James E Webster	992 87	
Hamilton E. Reynolds, Janitor....	327 50	
Sundry persons, for services as special police.....	40 00	
	<hr/>	60,393 84

Paid for SUNDRIES :

To Appropriation for Schools, for fuel,	\$163 84
Appropriation for School Houses, for labor and material.....	15 69
Appropriation for Roads and Bridges, for labor.....	24 25
Appropriation for Paupers, for wood	7 50
Appropriation for Public Build- ings, for lumber and labor....	10 68
Appropriation for Water Works, for water	65 10
William G. Bumps, for cash paid for conveyance of prisoners, etc	186 20
Peter T. Corcoran, for cash paid for conveyance of prisoners, telegrams, etc.....	190 46
Jacob G. Favor, for cash paid for conveyance of prisoners, use of horse, etc.....	54 43
Frank Goodwin, for cash paid for analysis of beer, etc.....	32 70
Daniel M. Hayes, for cash paid for traveling expenses, etc.....	102 85
Charles Howard, for cash paid for traveling expenses.....	1 80
Isaac L. Libby, for cash paid for labor	125 00

Amounts carried forward..... \$980 50 \$62,193 84

<i>Amounts brought forward.....</i>	\$ 980 50	\$62,193 84
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Paid for SUNDRIES :

To Charles Laflamme, for cash paid for traveling expenses.....	4 20	
Frank Wood, for cash paid for stamps, postals, telegrams, ex- press, labor, etc.....	63 78	
William E. Livingston, for coal...	152 50	
Whithed & Co., for coal.....	7 00	
W. G. Eaton, for professional ser- vices.....	10 00	
J. J. Sullivan, for professional ser- vices.....	10 00	
A. L. Brooks & Co., for billets....	2 40	
Bartlett & Dow, for padocks and lanterns	13 00	
H. B. Shattuck, for hardware.....	3 08	
O. E. Averill, for blacksmithing...	1 75	
H. R. Barker, for solder, packing and labor.....	10 94	
Richard Dobbins, for inspecting boilers	2 00	
T. R. Garity & Co., for bracket and labor	14 14	
N. J. Wier & Co., for water pot, coffee pot and cups.....	4 49	
Cahill Bros., for shoeing horse....	5 50	
M. V. B. Libbey, for shoeing horses,	59 80	
William P. Brazer & Co., for robes,	41 00	
H. F. Ebert, for rubber covers, re- pairing harnesses, etc.....	58 95	
G. H. Convers, for blanket and re- pairing carriages.....	28 72	
J. E. Conant & Co., for sleigh....	45 00	
Thomas C. Sawyer & Sons, for wagon and repairing carriages, .	312 84	
Edwin Sanborn, for repairing ear- riages	52 85	
G. J. & D. Bradt, for crackers.....	120 25	
Buttrick & Co., for tea, sugar, salt, soap and matches.....	27 06	
C. B. Coburn & Co., for ammonia, oil, alcohol, glue, brooms, brushes, dusters, etc.....	28 09	
French & Puffer, for cuspadores		

<i>Amounts carried forward.....</i>	\$2,059 84	\$62,193 84
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Amounts brought forward..... \$2,059 84 \$62,193 84

Paid for SUNDRIES :

and basket.....	7 46	
To Daniel Gage, for ice.....	14 75	
Hutchins & Co., for watering street.....	13 00	
P. M. Jefferson & Co., for soap....	6 00	
John A. Roark, for soap.....	2 00	
Brace & Lathrop, for insect powder.....	7 50	
C. W. Lerner & Co., for disinfectant and purifying powder....	10 50	
Adams & Co., for matting.....	6 00	
Offutt & Whitaker, for carpet and repairing chairs.....	1 40	
J. F. Puffer & Co., for mattresses and pillows.....	9 00	
Shea & Lee, for screens.....	8 00	
Samuel O. Aborn, for wreaths....	50	
Cluin & Allen, for badge and repairing badges.....	6 20	
J. J. Cluin, for wreaths and repairing badges.....	3 30	
W. B. Glover, for badges.....	2 00	
Alvin Lawrence, for repairing badges.....	1 40	
Harry Raynes, for badge and repairing badges.....	3 75	
O. A. Richardson, for badges, whistles, keys, labor, etc.....	153 30	
N. J. Loupret, for photographs of prisoners	24 50	
Lowell Gas Light Co., for gas.....	354 60	
N. E. Telephone & Telegraph Co., for telephone service.....	180 50	
J. P. Folsom & Co., for blankets..	38 00	
Middlesex Co., for cloth.....	439 35	
Waterbury Button Co., for buttons,	72 75	
H. C. Church & Son, for ink.....	60	
Lowell Rubber Type Co., for rubber stamp.....	3 75	
J. Merrill & Son, for diaries, blank books, etc.....	88 46	
Bachelor, Dumas & Co., for paper and ruling	2 25	
<i>Amounts carried forward</i>	<u>\$3,520 66</u>	<u>\$62,193 84</u>

Amounts brought forward..... \$3,520 66 \$62,193 84

Paid for SUNDRIES :

To Coughlin & Co., for blank book and stationery.....	1 87	
Campbell & Hanscom, for blank books and printing.....	46 50	
Citizen Newspaper Co., for printing.....	15 75	
Evening Democrat, for advertising,	5 00	
Lowell Weekly Sun, for advertising	5 50	
Marden & Rowell, for printing and advertising.....	10 87	
Morning Mail Co., for advertising,	8 75	
Charles Clapp, for difference between horses exchanged.....	200 00	
Frank E. Shaw, for horse.....	175 00	
Jesse A. Viles, for treatment of horses	12 00	
G. W. Norris, for keeping horses and use of carriage.....	744 07	
E. H. Morse, for carriage hire....	4 00	
S. D. Butterworth, for mason work and material.....	52 10	
Mary Shea, for labor.....	18 00	
John Sullivan for burying dog....	1 00	
John Harrington for teaming.....	50	
	<hr/>	4,821 57
Whole expenditure for the year.....		\$67,015 41
Balance undrawn Jan. 1, 1886.....		685 04
		<hr/>
		\$67,700 45
		<hr/> <hr/>

FIRE DEPARTMENT.

Balance undrawn Jan. 1, 1885.....	\$ 3,816 96	
Appropriated and assessed in 1885....	63,000 00	
	<hr/>	\$66,816 96

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF FIRE DEPART-
MENT:

From Appropriation for Water Works, for manure and flushing sewers.....	\$ 53 00	
T. J. Farrell, for sale of harness,	20 00	
E. S. Hosmer, for labor, sale of junk, etc,.....	32 45	
H. R. Barker, for manure.....	259 62	
George A. Chase, for heating Ward rooms.....	6 00	
William H. Meloy, for rent.....	60 00	
Edward Cawley, for horse.....	186 00	
C. H. Hanson & Co., for horses.	275 00	
C. H. Hanson, (on act. of Cur- ran & Joyce) for horse.....	200 00	
Robert J. Thomas, for horse....	150 00	
T. J. Sayers, for manure.....	12 00	
Richards Dobbins, for gaskets..	3 00	
F. W. Simons, for hooks, screws, pins, wire and lumber....	1 64	
L. W. Faulkner & Son, for use of steamer.....	15 00	
Lowell Cemetery, for labor.....	17 00	
Lowell Bleachery for labor.....	15 00	
	<hr/>	
<i>Amounts carried forward.....</i>	\$1,305 71	\$ 66,816 96

<i>Amount brought forwards</i>	\$1,304 71	\$66,816 96
Received into the TREASURY ON ACCOUNT OF FIRE DEPART- MENT:		
From William H. Dearborn, for over- draft	1 00	
	<hr/>	1,306 71
Transferred from Reserved Fund.....		1,506 09
		<hr/>
		\$69,629 76

EXPENDITURES.

Paid CHIEF ENGINEER AND ASSISTANT ENGINEERS:		
To Thomas J. Farrell, Chief Engineer, salary	\$466 67	
Edward S. Hosmer, Chief Engineer, salary	933 33	
James F. Norton, First Assistant Engineer and Clerk.....	225 00	
Edward Meloy, Assistant Engineer, Charles W. Marriott, Assistant En- gineer.....	87 50	
J. H. Stackpole, Assistant En- gineer.....	175 00	
O. J. Gilbert, Assistant Engineer..	175 00	
	87 50	
	<hr/>	\$ 2,150 00
Paid for SERVICES OF FIRE- MEN:		
To Members of the several companies, for services for the year end- ing Nov. 1, 1885.....	\$12,474 15	
	<hr/>	12,474 15
Paid of SERVICES OF PERMA- NENT FIREMEN:		
To George W. Alcott.....	\$819 00	
M. J. Burns.....	819 00	
H. Boynton.....	865 00	
S. E. Bartlett.....	562 50	
T. Crowley.....	819 00	
James Cowell	450 00	
F. E. Fuller.....	819 00	
H. J. Foster.....	846 00	
Jere. Flagg.....	837 00	
W. J. Flynn.....	560 25	
	<hr/>	
<i>Amounts carried forward</i>	\$ 7,396 75	\$14,624 15

FIRE DEPARTMENT.

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Amounts brought forward..... \$7,396 75 \$14,624 15

Paid for SERVICES OF PERMA-
NENT FIREMEN:

To Frank Hoyt.....	831 00	
William Halstead.....	828 00	
James Halstead.....	819 00	
C. F. Hemenway.....	828 00	
D. J. Hurley.....	819 00	
Jere. Harrington.....	846 00	
C. S. Hibbert.....	306 00	
William King.....	837 00	
A. E. Kidder.....	846 00	
J. D. King.....	108 00	
George Lovett.....	855 00	
E. J. Little.....	850 00	
E. O'Connell.....	846 00	
J. A. Peirce.....	846 00	
W. L. Peabody.....	860 00	
C. Riley....	819 00	
B. C. Reed.....	292 50	
A. C. Stearns.....	819 00	
James Starr.....	819 00	
George B. Whitney, Electrician..	966 97	
Sundry persons, for services as spe- cial firemen.....	70 77	
	<hr/>	22,508 99

Paid for HAY, GRAIN, ETC.:

To Ame & Co., for standard food.....	\$ 81 00	
American Spiced Food Co., for food.....	15 00	
J. B. Cover & Co., for straw, hay and oats.....	356 08	
Coggin, Kidder & Co., for hay....	144 90	
Lovell W. Colburn, for hay.....	16 64	
S. H. Frost & Co., for hay.....	21 47	
W. P. Foye, for hay, straw, shorts and oats.....	732 79	
C. H. Hanson & Co., for hay and straw.....	278 70	
Knapp Bros., for carrots.....	66 41	
William E. Livingston, for oats...	402 18	
N. B. Lapham, for hay.....	18 85	
Joseph Miller & Co., for oats.....	11 52	
Joseph Miller, for oats.....	23 46	
G. P. Mansfield, for hay.....	15 33	
	<hr/>	
<i>Amounts carried forward</i>	\$2,184 33	\$37,133 14

<i>Amounts brought forward.....</i>	\$2,184 33	\$37,133 14
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Paid For HAY, GRAIN, ETC.:

To John Nones, for hay.....	32 60	
E. O'Heir, for hay.....	192 99	
Stiles, Rogers & Co., for meal, oats, shorts and straw.....	101 44	
Jonathan Spalding, for hay.....	67 30	
William H. Wiggin, for hay.....	299 91	
Edward N. Wood & Co., for straw oil-meal, oats and salt.....	281 09	
	<hr/>	3,159 66

Paid for HORSES, HARNESSSES,
CARRIAGES, ETC.:

To Charles Clapp, for difference be- ween horses exchanged.....	\$850 00	
Charles F. Keyes, for horse.....	325 00	
American Fire Hose Manfg. Co., for snaps.....	5 00	
George F. Allen, for bit	2 25	
L. S. Butman, for repairing har- nesses.....	31 30	
T. M. Bolton & Co., for repairing harnesses	125 15	
Robert Barris, for repairing har- nesses	12 20	
Charles E. Berry, for hangers, springs and wheels.....	100 00	
J. E. Conant & Co., for whips.....	6 50	
P. Cummiskey, for bandages.....	75	
Dyer & Patterson, for traces and snaps.....	4 15	
H. F. Ebert, for repairing harness- es	121 28	
C. H. Hanson & Co., for blankets and brushes.....	14 40	
A. H. Abbott, for repairing car- riages, shoeing horses, etc....	55 48	
G. H. Convers, for repairing car- riages	678 85	
George A. Clark, for repairing car- riages	3 00	
Richard Dobbins, for repairing steamer.....	1 90	
	<hr/>	
<i>Amounts carried forward.....</i>	\$2,337 21	\$40,292 80

FIRE DEPARTMENT.

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<i>Amounts brought forward</i>	\$2,337 21	\$40,292 80
Paid for HORSES, HARNESSSES, CARRIAGES, ETC. :		
To Eagle Plating Co., for plating and polishing.....	1 00	
H. A. Racicot, for repairing car- riage.....	1 00	
C. A. Ross & Paradis, for repairing carriage.....	5 75	
Edwin Sanborn, for repairing car- riages.....	8 20	
J. H. Swett, for repairing car- riages.....	59 75	
Aaron C. Sawyer, for axle-paste...	2 75	
S. F. Hayward, for chemical En- gine.....	2,500 00	
	<hr/>	4,915 66
Paid for FUEL :		
To Appropriation for Schools, for coal,	\$311 68	
Appropriation for Roads and Bridges, for labor.....	100 00	
Appropriation for Paupers, for wood.....	17 50	
William Kittredge, for coal.....	54 43	
William E. Livingston, for coal...	746 30	
Stanley & Co., for coal.....	156 00	
Whithed & Co., for coal.....	15 00	
	<hr/>	1,400 91
Paid for SUNDRIES :		
To Appropriation for School-houses, for lumber, paint, varnish and glass.....	\$ 16 61	
Appropriation for Roads and Bridges, for blacksmithing...	232 02	
Appropriation for Public Buildings, for labor.....	226 18	
Appropriation for Water Works, for water.....	15,321 00	
Appropriation for Water Works, for pipe.....	7 99	
A. B. Buttrick, for chestnut poles.	142 00	
A. L. Brooks & Co., for lumber...	321 30	
Burnham & Moran, for lumber....	14 14	
<i>Amounts carried forward</i>	\$16,281 24	\$40,609 37

Amounts brought forward..... \$16,281 24 \$46,609 37

Paid for SUNDRIES :

To Badger & Holmes, for lumber and labor	8 55
Billings & Spencer Co., for hand-vices	5 00
Howe Bros. & Co., for lumber.....	46 19
William H. Kimball, for posts, rails and balusters	13 51
William Kelley & Son, for doors...	12 00
Amasa Pratt & Co., for lumber, doors and sash	246 52
Charles E. Adams, for hardware..	21 55
F. W. Bennett, for stall racks.....	23 70
Bartlett & Dow, for hardware....	62 02
H. B. Shattuck, for hardware and moulding	3 00
Frederick Taylor & Co., for hardware	216 36
O. E. Averill, for blacksmithing...	81 50
J. J. Adams, for filing saws	6 12
H. R. Barker, for heating apparatus, gas fixtures, pipe, fittings and labor	639 25
Boutwell Bros., for iron	3 54
Cole & Nichols, for castings	91 60
T. Costello & Co., for plumbing, pipe and fixtures	319 94
L. A. Derby & Co., for zines, carbons, sal ammoniac, etc	47 90
Richard Dobbins, for inspecting boilers, repairing boiler, mason work, etc	64 85
Farrell & Conaton, for plumbing..	12 20
T. R. Garity & Co., for exchanging boilers, radiator, pipe, fittings and labor	327 37
James Groves, for blacksmithing..	2 00
Charles T. Haskell, for filing saws,	32
C. F. Hemenway, for automatic door opener and closer	15 00
S. G. Mack & Co., for tunnel, solder and labor	11 54
Andrew J. Morse & Son, for copper rings	1 50

Amounts carried forward..... \$18,564 27 \$46,609 37

Amounts brought forward..... \$18,564 27 \$46,609 37

Paid for SUNDRIES:

To National Electric Protector Co., for electric protectors.....	150 00	
M. O'Flahavan & Co., for repairing lanterns.....	95	
Pevey Bros., for castings.....	28 75	
Abiel Pevey, for zines and copper wire.....	185 00	
Pettingell Chimney Cap Co., for chimney cap and protector...	12 00	
Edwin Rogers, for signal box, in- dicator, wire and labor.....	444 65	
J. W. Stewart & Co., for zinc, funnel, grates, repairing lan- tern, labor, etc.....	80 66	
A. L. Smith, for composition.....	9 45	
H. W. Tibbetts, for blacksmithing,	19 50	
Wallinford & Callaghan, for pipe, ash barrel, labor and repairing lantern.....	16 65	
H. H. Wilder & Co., for ash hods, water cooler and repairing lanterns.....	25 85	
C. Zimmer, for keys.....	3 00	
C. Criavier, for shoeing horse.....	1 00	
Cahill Bros., for shoeing horses....	66 15	
Owen Cahill, for shoeing horses...	12 10	
M. V. B. Libbey, for shoeing horses.....	27 70	
A. D. Mitten, for shoeing horses..	29 10	
A. Parsons, for shoeing horses. etc,	48 00	
T. Regan, for shoeing horses, etc..	24 90	
A. & E. Burton & Co., for feather dusters.....	15 00	
C. B. Coburn & Co., for glass, paint, benzine, asphaltum, putty, sponge, candles, lanterns, pail, brushes, etc.....	260 83	
A. Crowell, for medicine for horses,	2 00	
Charles E. Carter, for drugs and medicine.....	1 15	
F. H. Chandler, for oil and chim- ney.....	72	
French & Puffer, for brooms, pail, cuspadore, etc.....	78 18	
<i>Amounts carried forward</i>	\$20,107 56	\$46,609 37

Amounts brought forward..... \$20,107 56 \$46,609 37

Paid for SUNDRIES:

To Fiske & Spalding, for glass, lead, paint, shades and signs.....	34 14	
John M. Galvin, for oil and can...	7 00	
Josiah Gates & Sons, for hose, washers, reducer, and repair- ing hose.....	98 10	
A. S. Jackson, for nozzle, axes, and chamois skins.....	38 50	
James F. Kelty, for oil.....	20	
Jonathan Kendall & Co., for glass, paint, putty and brush.....	4 25	
L. S. Kimball, for soap.....	2 00	
M. Meaney, for hose aprons.....	6 50	
E. A McQuade, for brush.....	25	
George P. Palmer, for oil and can.	6 35	
John A. Roark, for soap.....	22 00	
J. C. Tolman, for pitcher.....	50	
C. P. Talbot & Co., for blue vitriol and bi-carbonate soda.....	33 75	
Talbot Dyewood & Chemical Co., for blue vitriol, ammonia, mu- riatic acid and camphor.....	242 31	
Vitae Lotion Co., for lotion.....	4 00	
Albert Wheeler & Co., for salt....	1 00	
Adams & Co., for furniture, bed- ding, linoleum, dusters and labor.....	257 00	
E. Hapgood & Son, for repairing mattresses	5 00	
J. F. Puffer & Son, for pillows, comforters and chairs.....	11 50	
John Welch, for chairs.....	30 00	
J. W. Cassidy, for cotton cloth....	6 98	
Cook, Taylor & Co., for blankets and crash.....	17 25	
J. P. Folsom & Co., for towels....	4 93	
H. Hosford & Co., for bedding, blandets and crash.....	27 63	
Julia Jantzen; for making bedding,	15 80	
J. V. Keyes, for cloth, blankets, quilts and towels.....	22 96	
Owen Bros., for cat-gut.....	50	
A. G. Pollard, for cloth and bed- ding.....	41 55	
<i>Amounts carried forward</i>	\$21,049 51	\$46,609 37

FIRE DEPARTMENT.

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Amounts brought forward..... \$21,049 51 \$46,609 37

Paid for SUNDRIES :

To Shea & Lee, for shades, fixtures and labor.....	16 09
American Fire Hose Mnfg. Co., for repairing rubber pipe.....	7 00
Carleton & Hovey, for bug poison and bottle.....	85
Ellingwood & Co., for medicine for horses.....	2 50
C. R. Kimball, for liniment.....	50
S. E. Tweed, for liniment.....	10 00
Lucius M. Wright, for medicine for horses.....	10 00
G. F. Stiles, for harnesses blacking, Rice & Co., for wire cloth and railing.....	12 00
Samuel Young, for lightning arrestors and copper wire.....	11 42
J. W. Bennett & Co., for tar barrels.....	23 24
E. A. & A T; Smith, for concrete..	5 35
Lowell Gas Light Co., for gas and metre connection.....	44 80
N. E. Telephone & Telegraph Co., for telephone service and supplies.....	459 01
H. B. & H. M. Bacon, for clocks, badges, buttons and plating buttons.....	357 83
J. J. Cluin, for clock.....	93 60
G. W. Dudley, for clock movements, spring and key.....	6 00
Charles T. Haskell, for clock.....	2 95
Alvin Lawrence, for clock movement and repairing clock.....	1 50
D. S. Spalding, for clock.....	6 25
Coughlin & Co., for paper.....	1 25
H. C. Church & Son., for stationery, waste and moulding.....	20
J. Merrill & Son, for ink.....	42 66
Campbell & Hanscom, for printing, Marden & Rowell, for printing....	50
Vox Populi Press, for printing...	23 00
	20 50
	19 75

Amounts carried forward..... \$22,228 26 \$46,609 37

Amounts brought forward..... \$22,228 26 \$46,609 37

Paid for SUNDRIES:

To T. J. Farrell, for cash paid for traveling expenses, postals, wheels, etc.....	8 23	
E. S. Hosmer, for cash paid for traveling expenses, stamps, express and labor.....	41 45	
Josiah T. Corner, for sign.....	12 00	
Scripture's Laundry, for washing..	54 92	
O. H. P. Trask, for use of tools...	1 00	
Wilder Bennett, for mason work and material.....	10 25	
S. D. Butterworth, for mason work and material.....	42 15	
C. F. Foss & Co., for mason work and material.....	53 08	
Albert Hamblett, for mason work and material.....	47 35	
D. M. Prescott, for mason work and material.....	54 18	
Staples Bros., for drain pipe.....	1 60	
Whithed & Co., for sand.....	1 00	
Robert Goulding, for slate, zinc and labor.....	14 86	
Charles Clapp, for keeping horse, clipping horses and use of horses	38 71	
Robert Wood, for treatment of horses	90 00	
C. G. Coburn, for oil, wicks, and rent of building.....	240 95	
Robert L. Read, for use of barn...	1 50	
B. G. Brown for teaming.....	6 20	
James Leach, for teaming.....	50	
William Roberts, for teaming....	50	
Lovejoy-Paul Express, for transportation.....	2 95	
U. S. and C. Express, for transportation	2 50	
B. & L. R. R., for transportation..	11 25	
O. C. R. R., for transportation....	55 00	
		23,020 39
Whole expenditure for the year.....		\$69,629 76

SEWERS AND DRAINS.

Appropriated and assessed in 1885....	\$20,000 00	
	<hr/>	\$20,000 00

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF SEWERS AND
DRAINS :

From Appropriation for Roads and Bridges, for brick, tools, horse and labor.....	\$495 11	
Appropriation for Intercepting Sewer, for labor.....	76 02	
Reserved Fund, for labor.....	263 62	
Commissioners of Sinking Funds, on loan.....	15,000 00	
Ira Hartwell, for brick.....	3 75	
Patrick J. Savage, for brick....	3 75	
Conarad Juul, for sewer tubs..	16 00	
C. H. Hanson, for use of engine and sale of tools.....	62 40	
George W. Norris, for labor....	7 88	
G. L. & J. Fowler, for use of engine	16 50	
Charles A. Kendall, for sewer grates.....	1 00	
James Chambers, for overdraft..	11 38	
Cleveland J. Cheney, Jr., for overdraft.....	94	
Michael Fallon, for overdraft...	1 75	
Edward Lyons, for overdraft...	3 50	
John McDonald, for overdraft..	6 25	
	<hr/>	
<i>Amounts carried forward</i>	\$15,969 85	<hr/> \$20,000 00

Amounts brought forward..... \$15,969 85 \$20,000 00

Received into the TREASURY ON
ACCOUNT OF SEWERS AND
DRAINS:

From Frank Narney, for overdraft....	88	
Michael Shalvey, for overdraft..	5 25	
Thomas Tucey, for overdraft...	25 38	
Sarah A. Bentley, for remote drainage, Marginal sewer...	25 00	
Jesse N. Bassett, for remote drainage, Chambers street..	25 00	
George W. Cummings, for re- mote drainage, Hampshire street.....	30 00	
Augusta Coffey, for remote drainage, Fifth street.....	15 00	
A. G. Cumnock, for remote drain- age, Talbot street.....	50 00	
Misael Dupre, for remote drain- age, Rock street.....	40 00	
Michael Finnegan, for remote drainage, Hampshire street.	15 00	
Michael Flannagan, for remote drainage, Howard street....	15 00	
Richard Green, for remote drain- age, Hampshire street....	15 00	
John W. Gray, for remote drain- age, West Sixth street....	10 00	
James A. Hadley, for remote drainage, Lilley avenue....	20 00	
Oscar A. Hall, for remote drain- age, Bridge street.....	25 00	
Estate of Fisher A. Hildreth, for remote drainage, Fourth street.....	35 00	
Leroy C. Hall, for remote drain- age, Twelfth street.....	20 00	
William T. Kenneston, for re- mote drainage, South Whip- ple street.....	15 00	
Margaret Kelley, for remote drainage, Summer street...	20 00	
Jonathan Ladd, for remote drain- age, Andover street.....	30 00	
Dennis McHugh, for remote drainage, Fayette street....	20 00	
<i>Amounts carried forward</i>	<u>\$16,426 36</u>	<u>\$20,000 00</u>

Amounts brought forward..... \$16,426 36 \$20,000 00

Received into the TREASURY ON
ACCOUNT OF SEWERS AND
DRAINS:

From S. G. Mack, for remote drainage, Pawtucket street.....	50 00	
Addison Putnam, for remote drainage, Fairmount street.	34 57	
Freeman B. Shedd, for remote drainage, Smith street.....	20 00	
Stephen P. Sargent, for remote drainage, Marginal street...	30 00	
L. R. J. & D. H. Varnum, for re- mote drainage, Fulton street,	15 00	
	<hr/>	16,575 93

Received for SEWER ASSESS-
MENTS:

From William H. McKeen, Washing- ton street.....	\$ 26 93	
Emil Paignon, Washington street.....	21 55	
Henry H. Beard, Washington street.....	26 93	
Frederick A. Upton, Washing- ton street.....	26 93	
John Q. A. Hubbard, Washing- ton street.....	59 25	
A. B. Woodworth, Washington street.....	34 48	
Mrs. Sylvanus C. Smiley, Wash- ington street.....	26 93	
William W. Rock, Washington street.....	26 93	
Isaac M. Grafton, Washington street.....	26 93	
Caroline D. Taylor, Washing- ton street.....	21 55	
Charles C. Wheeler, Washington street.....	21 55	
Charles E. Jameson, Washing- ton street.....	26 93	
Charles E. Jameson, Leverett street.....	22 96	
Henry H. Beard, Leverett street,	23 10	
	<hr/>	
<i>Amounts carried forward</i>	\$ 392 95	\$36,575 93

Amounts brought forward..... \$ 392 95 \$36,575 93

Received for SEWER ASSESS-
MENTS :

From Henry H. Beard, Leverett street,	26 19
Joseph Fremean, Leverett street,	29 28
Frank W. Corson, Beacon street,	44 42
Levi Sprague, Beacon street....	85 14
Emma F. Chase, Wilder street..	41 95
I. Sumner Richardson, Coburn street.....	31 47
I. Sumner Richardson, Coburn street.....	29 44
I. Sumner Richardson, Coburn street.....	26 18
John M. Richardson, Coburn street	13 09
John M. Richardson, Hampshire street.. ..	25 69
Children of Josiah Gates, South Nichols street.....	132 41
David Atwood, Varnum street..	7 84
Charles H. Hobson, Harrison street	26 14
Edward Smith, Fulton street...	9 65
Waldo H. Smith & Albert Bar- rett, Leverett street.....	38 45
Ann V. Laughton, Fulton street,	13 69
Estate of Charles H. Maloney, Fulton street.....	10 34
I. Sumner Richardson, Hamp- shire street.....	65 41
I. Sumner Richardson, Hamp- shire street.....	8 06
John Breen, Varnum street....	33 38
Helen J. Bartlett, Varnum street.....	6 12
James R. Fulton, Beacon street.	44 42
Daniel S. & William A Richard- son, Beacon street.....	72 18
Hattie F. Kew, Beacon street...	42 20
Heirs of Charlotte R. Coburn, Hildreth street.....	37 99
D. Moody Prescott, Harrison street.....	45 74
Adeline R. Emerson, Bartlett street.....	28 41

Amounts carried forward..... \$ 1,368 23 \$36,575 93

Amounts brought forward..... \$ 1,368 23 \$36,575 93

Received for SEWER ASSESS-
MENTS :

From Thomas Maxwell, Bartlett street,	38 26
Mrs. A. E. Spalding, Bartlett street.....	33 32
David B. Taylor, Bartlett street,	40 48
Artemas S. Tyler, Bartlett street,	46 12
Celia Doherty, River street.....	12 01
Adelbert Flanders, River street,	37 95
Warburton Bros., River street..	30 28
Luther Richards, Concord street,	63 12
Trustum H. Woodman, Wilder street.....	20 63
Mrs. Thomas Gorman, Hale street.....	30 20
Reserved Fund, Mammoth road.	49 50
Appropriation for School-houses, Mammoth road	45 00
Appropriation for School-houses, Rock street.....	74 32
Appropriation for School-houses, Fourth avenue.....	120 00
Alex. Anderson, Fourth avenue,	37 50
Alex. Anderson, Fourth avenue,	37 50
Daniel M. Wills, Fourth avenue,	37 50
Patrick Donovan, Second avenue,	40 50
Catherine Farrell, Fulton street,	43 13
Ann Noyes, Fulton street.....	31 29
Andrew L. Pendergast, Fulton street.....	34 21
Ellen McAnaney, Fulton street.	42 12
John Kenyon, Fulton street....	12 18
Frank P. Hill, Liberty street...	63 84
Ann Martin, Front street.....	12 86
Milton Fox, Front street.....	31 27
Estate of Harriet Parmenter, Varnum street.....	4 15
Charles C. Coburn & Warren Fox, Varnum street.....	4 91
Charles C. Coburn & Warren Fox, Varnum street.....	4 38
Edward Tuck, Varnum street...	81 21
Oliver M. Harding, Thirteenth street.	76 09

Amounts carried forward..... \$ 2,604 06 \$36,575 93

Amounts brought forward..... \$ 2,604 06 \$36,575 93

Received for SEWER ASSESS-
MENTS :

From Benjamin Benoit, Jr., Thirteenth street.	38 04
Oliver H. Moulton, Harrison street.	51 78
Oliver H. Moulton, Harrison street.....	44 66
John S. Jaques, Bartlett street..	75 18
Samuel T. Lancaster, Bartlett street.....	56 26
Patrick Mitchell, River street..	14 90
Patrick Mitchell, River street...	12 60
Samuel J. Reynolds, Beacon street.....	27 49
Samuel J. Reynolds, Beacon street	35 36
Asenath Jenness, Lilley avenue,	22 69
Asa C. Russell, Lilley avenue...	22 54
Samuel N. Harris, Lilley avenue,	26 26
Norman Bros., Leverett street..	32 37
Michael Riley, Fulton street....	26 08
Albert Viles, Fulton street.....	7 39
Albert Viles, Fulton street.....	39 81
James W. Jantzen, Fulton street,	23 65
Ann Gray, Fulton street.....	42 86
James McGuire, Fulton street..	29 82
Patrick Shannon, Fulton street.	24 51
Estate of J. C. Ayer, Mammoth road.....	210 75
James W. Ellis, Mammoth road,	18 75
Hugh Haley, Merrill street....	15 60
Bridget Galvin, Merrill street..	13 20
Samuel S. Page, Second avenue.	37 50
Moza A. Clough, Second avenue,	37 50
Lorenzo A. Smith, Beacon street,	44 42
James R. Fulton, Beacon street,	44 42
John M. Richardson, West street.....	86 39
Jason W. Crosby, Hale street...	62 35
James Small, Barrington street.	32 78
Julius T. Adams, Leverett street.....	29 31
Hugh W. Erdis, Thirteenth street.....	38 04
Michael McEvoy, Fourth avenue,	37 50

Amounts carried forward.... \$ 3,965 92 \$36,575 93

Amounts brought forward..... \$ 3,965 92 \$36,575 93

Received for SEWER ASSESS-
MENTS:

From Edward E. McLearn, Lilley avenue.....	23 42
John Warburton, River street..	36 33
Everett Wright, Second avenue,	37 02
Sager Ashworth, Second avenue,	37 50
Sager Ashworth, Second avenue,	37 50
Catherine Mahoney, Second avenue.....	23 25
William B. Jones, Second avenue,	37 50
Henry J. Wright, Second avenue,	36 46
Benjamin Russell, Second avenue,	37 50
Lydia E. Bennett, Second avenue.....	30 22
Mary S. Howell, Second avenue,	37 50
David S. Spaulding, Second avenue.....	37 50
David S. Spaulding, Fourth avenue.....	37 50
Samuel George, Fourth avenue,	37 50
Mary Crossland, Fourth avenue,	37 50
Orin A. Giles, Fourth avenue...	37 50
Hiram Vining, Fourth avenue...	37 50
Mrs. William J. Carey, Fourth avenue.....	37 50
Sephora H. Cherrington, Fourth avenue.....	37 50
Estate of George Stevens, Fourth avenue.....	97 84
Estate of George Stevens, Mam- moth road.....	61 90
Abel Coburn, Mammoth road...	24 38
Robert Gunston, Mammoth road,	32 02
Catherine Quigley, Mammoth road.....	39 90
Mary A. Stearns, Mammoth road,	35 48
Thomas R. Garity, Edson street,	30 16
Wells F. Trumbull, Edson street,	29 25
Darwin Stafford, Lilley avenue,	44 36
Charles H. Donaldson, Lilley street.....	44 90
Amos B. French, Thirteenth street.....	20 16

Amounts carried forward..... \$ 5,100 47 \$36,575 93

Amounts brought forward..... \$ 5,100 47 \$36,575 93

Received for SEWER ASSESS-
MENTS :

From Amos B. French, Thirteenth street.....	76 09
Freeman W. Puffer. Thirteenth street.....	55 92
James S. Hovey, Thirteenth street.....	149 52
Heirs of F. A. Hildreth, River street.....	60 56
William Gaunt, Merrill street..	14 40
Murtagh Coleman, Fulton street,	24 69
L. R. J. & D. H. Varnum, Fulton street.....	128 58
L. R. J. & D. H. Varnum, Fulton street..	98 69
L. R. J. & D. H. Varnum, Fulton street.....	171 79
James Purcell, Leverett street..	32 38
Michael & Lizzie M. Connor, Pleasant street.....	18 47
Patrick O'Rourke, Washington street.....	26 93
Patrick O'Rourke, Washington street.....	26 93
Patrick O'Rourke, Washington street.....	10 23
James W. Ellis, Second avenue.	44 63
Emily J. Hubbard, Second avenue,	35 89
John Mayo, Second avenue....	25 13
Frank W. Leman, Fourth avenue,	37 50
Zina E. Stone, Fourth avenue...	37 50
Dennis Kelley, Fourth avenue..	37 50
Cyrus H. Latham, Fourth avenue,	37 50
Charles H. Richardson, Fourth avenue.....	37 50
John W. Pead, Lilley avenue...	42 90
John W. Pead, Lilley avenue...	42 90
John W. Pead, Lilley avenue...	42 90
John W. Pead, Lilley avenue...	42 90
Thomas Nesmith, Lilley avenue,	49 77
John Pearson, Barrington street,	35 05
Valentine L. Wilson, Barrington street.....	34 35

Amounts carried forward..... \$ 6,579 57 \$36,575 93

Amounts brought forward..... \$6,579 57 \$36,575 93

Received for SEWER ASSESS-
MENTS :

From Valentine L. Wilson, Barrington street.....	35 60
Samuel Broughton, Washington street.....	26 93
Bridget Cavanagh, Fulton street,	12 87
John A. Pratt, Beacon street...	44 42
Frederick T. Greenhalge & William H. Bent, Edson street,	22 97
Meldon S. Giles, Fourth avenue,	37 50
Meldon S. Giles, Fourth avenue,	37 50
Sarah A. Banfill, Fourth avenue,	37 50
Sarah A. Banfill, Fourth avenue,	37 50
Samuel H. Barker, Fourth avenue.....	37 50
Charles Roberts, Fourth avenue,	37 50
Charles Roberts, Fourth avenue,	37 50
Charles Roberts, Fourth avenue,	37 50
Charles Roberts, Fourth avenue,	37 50
Harry R. Rice, Fourth avenue..	37 50
James P. Fowler, Fourth avenue,	37 50
Alonzo H. Vining, Mammoth road.....	38 25
Michael Kelley, Mammoth road,	118 48
Charles H. Howland, Second avenue.....	34 50
John C. Tolman, Second avenue,	26 47
Louis P. Lamothe, Second avenue,	88 50
Elizabeth Fletcher, Washington street.....	14 38
Edgar P. Barclay, Washington street.....	26 93
Estate of William Parsons, Hale street.....	102 30
Elzard Martel, Hale street.....	24 02
Ethan A. Smith, Eli W. Hoyt, Thomas R. Garity & Freeman B. Shedd, Pleasant street.....	46 63
Thomas Nesmith, Lilley evenue,	24 98
Daniel S. Gray, Smith street....	364 09
Albert A. Davis, Rock street....	42 16
John O'Flynn, Fulton street....	19 73
Thomas Carolin, Bartlett street.	46 92

Amounts carried forward \$ 8,153 20 \$36,575 93

Amounts brought forward..... \$ 8,153 20 \$36,575 93

Received for SEWER ASSESS-
MENTS:

From Henry Creese, Bartlett street...	31 53
Estate of John Brady, Front street.....	13 62
Alfred J. Livingston & George W. Chase, Concord street..	13 64
Patrick Keyes, Fourth avenue...	37 50
Patrick Keyes, Fourth avenue...	37 50
Patrick Keyes, Fourth avenue..	37 50
Thomas Nesmith, Lilley avenue,	42 90
Thomas Nesmith, Lilley avenue,	42 90
Thomas Nesmith, Lilley avenue,	42 90
Thomas Nesmith, Lilley avenue,	42 90
Thomas Nesmith, Lilley avenue,	42 90
Thomas Nesmith, Lilley avenue,	42 90
William French, Varnum street,	165 13
Albert C. Robinson, Varnum street.....	5 29
Charles Boughan, River street .	42 82
Patrick Lynch, Washington street.....	26 93
Mary E. Luscomb, Second avenue	37 50
Patrick Riordan, Second avenue,	37 50
Moza A. Clough, Second avenue,	37 50
Frank Sheridan, Fourth avenue,	37 50
Anthony F. Cogger, Fourth avenue.....	37 50
Robert B. Seeton, Fourth avenue,	37 50
Henry Emery, Fourth avenue...	37 50
Henry Emery, Mammoth road..	37 50
George E. Evans, Thirteenth street.....	151 43
Thomas Wilson, Hale street....	58 75
Mrs. Oliver Swain, Stevens street.....	30 75
Mrs. Oliver Swain, Stevens street,	108 75
Joshua Varnum, Fulton street..	31 82
William Whitmore, Gold street.	15 82
George W. Wyman, Rock street,	24 64
John G. Stedman, Barclay street,	52 87
Austin K. Chadwick, Talbot street.....	41 28
Philip P. Brown, Second avenue,	37 50

Amounts carried forward..... \$ 9,675 67 \$36,575 93

Amounts brought forward..... \$ 9,675 67 \$36,575 93

Received for SEWER ASSESS-
MENTS:

From Philip P. Brown, Second avenue,	37 50
Margaret Warburton, River	
street.....	30 28
William H. Anderson, Stevens	
street.....	90 00
George B. Sylvester, Gold street,	19 13
E. A. Smith, Stevens street.....	75 00
E. A. Smith, Stevens street.....	63 00
George H. Campbell, Second	
avenue.....	38 25
Estate of Samuel A. Bent, Wash-	
ington street.....	58 17
Daniel Lovejoy & Son, Broad-	
way.....	51 19
Achsah McAlvin, Varnum street,	3 79
Estate of B. F. Simpson, Fulton	
street.....	11 42
Estate of Fisher A. Hildreth,	
Lilley avenue.....	108 54
Estate of Fisher A. Hildreth,	
Lilley avenue.....	94 38
Julia A. Scott, Barrington	
street.....	37 88
Henry J. Ryerson, Bartlett	
street.....	53 80
James W. B. Shaw, Talbot	
street.....	51 65
Trustees of Estate of Thomas	
Nesmith, Talbot street....	41 75
Merrimack Manfg. Co., Fulton	
street.....	79 98
Merrimack Manfg. Co., Fulton	
street.....	79 98
Merrimack Manfg. Co., River	
street.....	59 00
Timothy McOwen, Davis street.	42 73
William Holmes, Gold street...	43 23
Sarah A. Harriman, Hale street,	22 39
Maria M. Carter, Broadway....	100 28
I. Sumner Richardson, West	
street.....	169 06
I. Sumner Richardson, West	
street.....	62 29

Amounts carried forward..... \$11,200 34 \$36,575 93

Amounts brought forward..... \$11,200 34 \$36,575 93

Received for SEWER ASSESS-
MENTS:

From I. Sumner Richardson, West street.....	59 32
I. Sumner Richardson, West street.....	78 38
I. Sumner Richardson, West street.....	98 63
I. Sumner Richardson, West street.....	58 58
I. Sumner Richardson, West street.....	24 03
I. Sumner Richardson, West street.....	128 86
I. Sumner Richardson, West street.....	81 57
I. Sumner Richardson, West street.....	57 84
I. Sumner Richardson, West street.....	46 67
John M. Richardson, West street.....	84 52
John M. Richardson, West street.....	31 14
John M. Richardson West street.....	29 66
John M. Richardson, West street.....	64 14
John M. Richardson, West street.....	49 31
John M. Richardson, West street.....	74 15
John M. Richardson, West street.....	23 33
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	29 05
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	63 23
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	44 66

Amounts carried forward..... \$12,327 41 \$36,575 93

Amounts brought forward..... \$12,327 41 \$36,575 93

Received for SEWER ASSESS-
MENTS :

From E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	44 66	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	58 13	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	32 66	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	32 66	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	32 66	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	65 35	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	33 80	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	44 95	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	39 72	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street....	46 71	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	29 05	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	39 72	
E. A. Smith, E. W. Hoyt, T. R. Garity and F. B. Shedd, Harrison street.....	74 72	
	<hr/>	12,902 20
		<hr/>
		\$49,478 13
		<hr/>

EXPENDITURES.

Paid for LABOR AS PER PAY-
ROLLS:

In January.....	\$2,022 47	
February.....	1,086 29	
March.....	472 43	
April....	934 90	
May.....	3,628 38	
June.....	2,926 05	
July.....	1,303 18	
August.....	3,016 30	
September.....	2,866 64	
October.....	2,606 63	
November.....	2,570 48	
December.....	2,377 40	
	<hr/>	\$25,811 15

Paid for DAMAGES:

To Philip P. Brown, for damage to property on Second avenue...	\$ 37 50	
Rebecca Ann Barry, for damage to property on Taylor street....	37 67	
Henry M. Bacon, for damage to property on East Pine street..	20 11	
	<hr/>	95 28

Paid for ABATEMENTS:

To Charles H. Donaldson, on assessment for sewer in Lilley avenue....	\$ 2 00	
Albert A. Davis, on assessment for sewer in Rock and Willie streets.....	21 91	
James Small, on assessment for sewer in Barrington street... .	13 31	
	<hr/>	37 22

Paid for PIPE, BRICK, CEMENT,
LUMBER, HARDWARE, ETC.;

To Charles A. Kendall, for drain pipe and labor.....	\$ 62 87	
Staples Bros., for drain pipe and grates.....	1,559 58	
Jesse Gault, for brick.....	833 79	
	<hr/>	
<i>Amounts carried forward.....</i>	\$ 2,456 24	\$25,943 65

SEWERS AND DRAINS.

153

Amounts brought forward..... \$ 2,456 24 \$25,943 65

Paid for PIPE, BRICK, CEMENT,
LUMBER, HARDWARE, ETC:

To S. S. Hill, for brick,.....	82 50	
Isaac H. Pollard, for brick.....	1,175 31	
David Smith, for brick,.....	64 40	
S. C. Sleeper, for brick,.....	53 68	
Sweatt & Davis, for stone.....	25 00	
William E. Livingston, for cement and brick,.....	1,169 55	
Whithed & Co., for cement,.....	5 40	
E. A. & A. T. Smith, for repairing concrete,	5 25	
Badger & Holmes, for lumber and labor,.....	19 25	
A. Bachelder & Co., for lumber,..	1 00	
Burnham & Moran, for lumber....	329 05	
A. L. Brooks & Co., for lumber,..	78 01	
A. P. Bateman, for lumber,.....	95 44	
Davis & Sargent, for lumber,.....	147 06	
Hamilton Manfg. Co., for lumber,..	5 67	
Amasa Pratt & Co., for lumber,..	20 08	
Whitney & Tibbetts, for lumber,..	67 92	
Charles E. Adams, for hardware and tools,.....	12 45	
John C. Bennett, for hardware and tools,.....	22 57	
Bartlett & Dow, for hardware and tools,.....	20 00	
H. B. Shattuck, for hardware and tools,.....	15 35	
Frederick Taylor, for hardware	3 86	
Boutwell Bros., for iron,.....	1 37	
	<hr/>	5,876 41

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for services of City Engineer and assistants;.....	921 00
Appropriation for Roads and Bridges, for services of Supt. of Streets.....	900 00

Amounts carried forward..... \$ 1,821 00 \$31,820 06

Amounts brought forward..... \$1,821 00 \$31,820 06

Paid for SUNDRIES:

To Appropriation for Roads and Bridges, for keeping horses, use of tools, stone, brick and labor.....	1,252 32
Appropriation for Water Works, for water, pipe, lead, etc.....	268 65
C. F. Foss & Co., for labor and material	1,493 19
C. F. Foss & Co., for construction of receiving basins, per con- tract.....	3,354 83
J. T. Adams, for repairing jack- screws	1 00
H. R. Barker, for packing and rub- ber.....	3 55
E. P. Bryant, for blacksmithing...	1 18
Cole & Nichols, for castings.....	1,437 89
L. A. Derby & Co., for wire and re- pairing blasting machine.....	2 00
Edson Manfg. Co., for rubber diaphragms	25 92
Farrell & Conaton, for pipe, solder and labor.....	2 96
W. & L. E. Gurley, for repairing and adjusting transit.....	12 00
Albert Hallowell, for labor on in- struments	21 25
J. H. Haskell, for filing saws.....	1 40
Charles T. Haskell, for filing saw.	35
Lowell Machine Shop, for gear....	42
M. McGloughlin, for filing saws...	11 80
Nason B. Parsons, for filing saws..	5 65
Pevey Bros., for castings.....	96 77
Martin & Strong, for dippers.....	1 50
S. G. Mack & Co., for pans.....	1 50
N. J. Wier & Co., for fish horn...	15
H. H. Wilder & Co., for jets, horns, etc	38 10
H. B. Barnes, for paint and labor..	12 07
Barney & Co., for salt.....	15
J. W. Bennett & Co., for bags....	2 40
C. B. Coburn & Co., for oil, glass and twine.....	8 93
H. C. Church & Son, for bags.....	1 25

Amounts carried forward..... \$9,880 18 \$31,820 06

Amounts brought forward..... \$9,880 18 \$31,830 06

Paid for SUNDRIES:

To Coggin, Kidder & Co., for oatmeal.	37 25
F. H. Chandler, for salt and basket.....	5 05
John Devine, for salt.....	75
L. C. Dodge, for bagging.....	1 26
Ela & Puffer, for salt.....	2 15
Fiske & Spalding, for paint, varnish, glass and labor.....	5 73
French & Puffer, for buckets and brooms	1 16
Fuller & Clark, for salt.....	75
Josiah Gates & Sons, for packing, and repairing hose.....	17 25
I. K. Goodale, for salt.....	98
Hartwell & Co., for salt.....	30
Richard Ingham, for canvas.....	8 20
A. L. Kittredge, for tracing cloth and ink.....	10 13
Miller Bros., for salt.....	2 54
Nichols & Fletcher, for salt, brooms, pails and powder.....	18 95
O. B. Ranlett, for salt and oil.....	4 13
J. B. Richardson & Sons, for salt..	2 25
George H. Sampson, for powder and exploders.....	144 67
George G. Spofford, for salt.....	35
I. B. Whittemore, for salt.....	38
Boulger & McOsker, for rubber boots	5 76
Allen Bailey, for repairing rubbers	3 25
J. B. Goodwin, for rubber boots...	6 00
M. C. Huntoon, for rubber boots..	6 00
Hoyt Bros., for rubber boots.....	3 00
Swan & Smith, for rubber boots...	27 00
Hapgood Wright, for rubber boots.	23 00
George E. Evans, for cash paid for postage, telegrams, expressing, etc.....	6 23
C. H. Hanson, for cash paid for traveling expenses.....	3 75
Thomas Groom & Co., for paper...	1 08
A. Whitney, for stationery and pencils	4 96

Amounts carried forward \$10,234 44 \$31,820 06

Amounts brought forward..... \$10,234 44 \$31,820 06

Paid for SUNDRIES:

To Citizen Newspaper Co., for advertising.....	10 00	
Campbell & Hanscom, for advertising	3 75	
Marden & Rowell, for advertising.	4 11	
Morning Mail Co., for blank books, envelopes, printing and advertising	19 25	
Owen Conners, for labor in 1882..	1 75	
Albert A. Davis, for amount paid for remote drainage, Rock street.....	20 00	
Solomon H. Ladd, for amount paid for remote drainage, School street.....	20 00	
Samuel Reynolds, for amount paid for remote drainage, Fremont street.....	20 00	
T. J. Farrell, for labor.....	6 25	
James Slaven, for drain pipe, cement and labor.....	30 79	
Benjamin G. Brown, for teaming..	33 00	
Charles Clapp, for teaming.....	24 00	
C. H. Hanson & Co., for teaming..	116 50	
R. & L. R. R., for labor.....	10 55	
B. & M. R. R., for transportation.	406 60	
U. S. & C. Express, for transportation	15	
	<hr/>	10,961 14
Whole expenditure for the year.....		\$42,781 20
Balance undrawn Jan. 1, 1886.....		6,696 03
		<hr/>
		\$49,478 13

INTERCEPTING SEWER.

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF INTERCEPT-
ING SEWER :

From William Andrews & Co., for part payment on act. of engine,	\$150 00
J. E. Conant & Co., for sale of lumber,.....	422 69
Luther Kittredge, for use of derrick,.....	75 00
Sundry persons, for overdrafts, as follows :	
James Chambers,.....	7 00
Patrick Clohessy,.....	15 22
John J. Doyle,.....	4 02
Henry Garrison,.....	88
John Landers,.....	8 75
Frank McSweeney,.....	88
James McCaffrey,.....	1 75
John F. Maguire,.....	1 75
James McGuane,.....	3 50
Charles Paul,.....	1 75
Joseph Reed,.....	1 75
John Sparks,.....	75
Frederick E. St. John,.....	4 50
	<hr/>
	\$700 19

EXPENDITURES.

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for stone, lime and labor,.....	\$ 89 09
<i>Amount carried forward</i>	<hr/> \$89 09

Amount brought forward \$ 89 09

Paid for SUNDRIES:

To Appropriation for Sewers and Drains, for services of City Engineer and assistants, and labor,	76 02
Appropriation for Water Works, for water,	6 00
C. F. Foss & Co., for labor and material,	7 47
William E. Livingston, for lime, .	1 10
Staples Bros., for drain pipe,	20 15
Thomas Walkden, for stove-pipe and labor,	2 50
William W. Barton, for per- sonal injuries,	131 50
Elizabeth Butland, for damage to property,	60 00

Whole expenditure for the year.....	\$ 393 88
Balance undrawn Jan. 1, 1886.....	306 36

\$700 19

Expended in 1882.....	\$45,417 64
Expended in 1883.....	316,436 76
Expended in 1884.....	58,593 06
Expended in 1885.....	393 83

Total expenditure to Jan 1, 1886.....	\$420,841 29
Deduct amount received for material, tools, and labor.....	15,275 22

Net cost of Intercepting Sewer to Jan. 1, 1886	\$405,566 07
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COMMONS.

Balance undrawn Jan, 1, 1885.....	\$ 211 41	
Appropriated and assessed in 1885.....	3,000 00	
	<hr/>	\$3,211 41

RECEIPTS.

Received into the TREASURY ON ACCOUNT OF COMMONS:

From Samuel M. Chase, City Clerk, for rent of lots.....	\$286 00	
Michael J. Maguire, for rent of lots	10 50	
Ira Hartwell, for sale of stone..	4 00	
Charles E. Adams, for overdraft,	10 30	
	<hr/>	310 80
		<hr/> <hr/>
		\$3,522 21

EXPENDITURES.

Paid for SUNDRIES :

To Sundry Persons, for labor as per pay-rolls	\$2,450 67
Appropriation for School Houses, for paint, oil and putty.....	8 69
Appropriation for Roads and Bridges, for sand, tools and labor.....	174 34
Appropriation for Police, for ser- vices of officers.....	22 50
Appropriation for Lighting, for globes	26 58
Appropriation for Public Build- ings, for paint and labor.....	48 75
	<hr/>
<i>Amount carried forward</i>	\$ 2,731 53

Amount brought forward \$2,731 53

Paid for SUNDRIES:

To Appropriation for Water Works, for hydrant boxes, pipe and fittings	13 55
Appropriation for Water Works, for water.....	151 68
William E. Livingston, for coal...	1 75
Burnham & Moran, for lumber...	4 06
Charles E. Adams, for globes, paint hardware and tools.....	89 26
Frederick Taylor & Co., for hard- ware and tools.....	6 60
T. R. Garity & Co., for pipe, fit- tings, labor, etc.....	115 55
Amos Glines, for varnish, brush and labor.....	17 50
C. B. Coburn & Co., for paint and gold leaf.....	2 24
Nichols & Fletcher, for powder and fuse	7 75
George H. Sampson, for powder, forcite, and exploders.....	48 50
Charles T. Haskell, for filing saws,	99
Nason B. Parsons, for filing saws.	1 02
S. G. Mack & Co., for castings and labor... ..	28 17
Jerry Ryan, for dippers, hooks and chain	4 90
C. F. Foss & Co., for mason work and material.....	10 55
T. M. Bolton & Co., for repairing harness	3 75
David Fitzgerald, for summoning witnesses	4 24
R. A. Parker, for short hand notes at investigation.....	6 25
E. H. Morse, for carriage hire.....	1 00
B. G. Brown, for teaming.....	31 00
John M. F. Gormley, for teaming.	56 25

Whole expenditure for the year.....
Balance undrawn Jan. 1, 1886.....

\$3,338 09
184 12

\$3,522 21

PRINTING AND ADVERTISING.

Appropriated and assessed in 1885....	\$3,000 00	
	\$3,000 00	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF PRINTING
AND ADVERTISING:

From Campbell & Hanscom, for paper.....	\$ 74 25	
	74 25	
		\$3,074 25

EXPENDITURES.

Paid for PRINTING, ADVERTIS-
ING, ETC.:

To Bacheller, Dumas & Co., for binding and lettering.....	\$ 37 96	
Citizen Newspaper Co., for paper, printing and advertising.....	581 75	
Campbell & Hanscom, for printing and advertising.....	180 62	
Evening Democrat, for advertis- ing.....	81 30	
Franklin Printing Office, for print- ing.....	39 50	
Harrington Bros., for printing....	2 25	
Journal du Commerce, for advertis- ing.....	5 50	
<i>Amount carried forward</i>	\$ 928 88	

Amount brought forward \$928 88

Paid for PRINTING, ADVERTISING, ETC :

To Oliver A. Libby, for printing.....	40 75
Lowell Weekly Sun, for advertising.....	53 00
Marden & Rowell, for printing and advertising.....	176 94
Morning Mail Co., for printing and advertising.....	359 65
Vox Populi Office, for printing....	406 15
Vox Populi Press, for printing and advertising.....	752 60
Huntington Hall Bill Posting Co., for posting....	19 50
A. V. Partridge, for posting.....	44 97

Whole expenditure for the year.....
Balance undrawn Jan. 1, 1886.....

\$2,782 44
291 81

\$3,074 25

LIGHTING.

Appropriated and assessed in 1885.....	\$43,000 00	
	\$43,000 00	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF LIGHTING :

From Appropriation for Commons, for globes	\$ 26 58	
George A. Chase, for lighting Ward rooms.....	43 00	
E. S. Hosmer, for sale of ma- nure.....	2 00	
William Kneeland, for manure..	1 50	
E. D. Lasure, for lamp-post.....	3 25	
	76 33	
Transferred from Reserved Fund.....		2,242 82
		\$45,319 15

EXPENDITURES.

Paid for LIGHTING PUBLIC
BUILDINGS :

To Lowell Gas Light Co., for gas.....	\$1,370 89	
Middlesex Electric Light Co., for lighting.....	538 90	
	\$1,909 79	

Paid for LIGHTING STREETS :

To Sundry persons, for labor as per pay-rolls	\$6,597 62	
<i>Amounts carried forward</i>	\$6,597 62	\$ 1,909 79

Amounts brought forward..... \$ 6,597 62 \$ 1,909 79

Paid for LIGHTING STREETS:

To Appropriation for Schools, for coal,	11 57
Appropriation for Roads and Bridges, for labor.....	110 17
Appropriation for Paupers, for coal.....	7 00
Appropriation for Water Works, for water.....	17 00
Globe Gas Light Co., for lighting and care of street lamps.....	5,863 79
Lowell Gas Light Co., for gas.....	10,757 43
Middlesex Electric Light Co., for lighting.....	17,754 40
Badger & Holmes, for lamp-posts.	4 50
Charles E. Adams, for globes, lan- terns, hardware, etc.....	381 25
Frederick Taylor & Co., for hard- ware.....	1 01
Cole & Nichols, for lamp-posts....	232 00
Pevey Bros., for lamp-posts, cast- ings and labor.....	396 24
	<hr/>
	\$42,133 98

Paid for SUNDRIES :

To F. W. Bennett, for globes and matches.....	65 83
H. R. Barker, for fittings, burners and labor.....	167 19
T. Costello & Co, for lanterns, solder, labor, etc.....	341 86
T. R. Garity & Co., for tips.....	3 75
S. G. Mack & Co., for copper lan- terns.....	36 00
H. H. Wilder & Co., for repairing lanterns.....	7 00
T. Regan, for shoeing horse.....	3 25
G. H. Convers, for repairing car- riage.....	36 10
E. Dupont, for repairing carriage.	6 00
T. M. Bolton & Co., for repairing harness.....	2 35
H. F. Ebert, for blanket.....	5 00
W. P. Foye, for oats, corn and meal.....	14 90

Amounts carried forward..... \$42,823 31 \$ 1,909 79

Amounts brought forward..... \$42,823 21 \$ 1,909 70

Paid for SUNDRIES:

To William E. Livingston, for oats, corn, meal and hay.....	63 52	
E. O'Heir, for hay.....	35 48	
C. B. Coburn & Co., for alcohol, oil, glycerine, black varnish, glass, etc	382 29	
Walter Coburn & Co., for waste...	12 00	
O. Duckworth, for oil, spirits tur- pentine and glass.....	8 55	
Fiske & Spalding, for glass and paint	19 32	
French & Puffer, for reflectors....	1 00	
Lawrence Manfg. Co., for cloth...	5 40	
G. F. Stiles, for glass, paint and brushes	7 00	
Robert Simpson, for matches.....	5 00	
Coughlin & Co., for blank book, diary and slate.....	3 25	
Morning Mail Co., for printing....	4 50	
N. E. Telephone and Telegraph Co., for telephone service to Sept. 1, 1886.....	25 00	
J. L. Noyes & Son, for use of horse	4 50	
E. A. & A. T. Smith, for repairing concrete.....	9 25	
	<hr/>	\$43,409 36
Whole expenditure for the year.....		<hr/> <hr/> \$45,319 15

PUBLIC BUILDINGS.

Balance undrawn Jan. 1, 1885,.....	\$2,106 12	
Appropriated and assessed in 1885....	8,000 00	
		\$10,106 12

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF PUBLIC
BUILDINGS:

From Appropriation for Schools, for blackboards, material and labor.....	\$1,228 37	
Appropriation for Roads and Bridges, for labor and ma- terials.....	3 00	
Appropriation for Paupers, for labor.....	288 67	
Appropriation for Police, for labor.....	10 68	
Appropriation for Fire Depart- ment, for labor.....	226 18	
Appropriation for Commons, for labor.....	48 75	
Appropriation for City Hall Building Lot, for labor.....	738 93	
Appropriation for City Library, for labor.....	119 05	
Appropriation for Water Works, for labor and material.....	193 19	
Reserved Fund, for labor.....	353 05	
E. J. Noyes, for labor.....	2 25	
S. B. Ramsdell, for overdraft...	2 25	
		3,214 37
		\$13,320 49

EXPENDITURES.

Paid SUPERINTENDENT OF
PUBLIC BUILDINGS :

To Willard D. Cheney, Supt., salary	\$ 32 88	
George A. Chase, Supt., salary..	1,467 12	
	<hr/>	\$1,500 00

Paid for LUMBER, HARDWARE,
ETC :

To A. L. Brooks & Co., for lumber..	\$ 88 68	
Badger & Holmes, for lumber and labor	10 00	
A. Bachelder & Co., for door.....	3 50	
Burnham & Moran, for lumber...	6 40	
A. P. Bateman, for lumber.....	18 07	
A. Keddie, for sawing lumber.....	25	
William H. Kimball, for post, rail and baluster.....	8 05	
Amasa Pratt & Co., for lumber....	90 53	
J. G. Peabody & Sons, for sash...	3 00	
Whitney & Tibbetts, for lumber..	33 91	
John C. Bennett, for hardware....	15 95	
H. B. Shattuck, for hardware....	16 39	
Frederick Taylor & Co., for hardware	45 86	
C. Zimmer, for key.....	20	
	<hr/>	340 79

Paid for SUNDRIES :

To Sundry persons, for labor as per pay rolls.....	\$4,461 05	
Appropriation for School-houses, for lumber.....	2 32	
Appropriation for Roads and Bridges, for labor.....	39 79	
Appropriation for Paupers, for wood.....	7 00	
Appropriation for Water Works, for water.....	20 00	
O. E. Averill, for blacksmithing...	14 75	
H. R. Barker, for pipe, fittings, radiator, burners and labor...	114 48	
Cahill Bros., for shoeing horse....	2 25	
Farrell & Conaton, for pipe fittings and labor.....	30 72	
	<hr/>	
Amounts carried forward	\$ 4,692 36	\$ 1,840 79

Amounts brought forward \$ 4,692 36 \$ 1,840 79

Paid for SUNDRIES:

To T. Costello & Co., for pipe, solder, putty and labor.....	10 80	
L. A. Derby & Co., for burner, chain and labor.....	3 25	
John Gilchrist, for labor.....	29 46	
T. R. Garity & Co., for globes, labor, etc.....	28 70	
M. J. Hennessey, for water fix- tures, labor, etc.....	19 51	
M. V. B. Libbey, for shoeing horse	14 65	
S. G. Mack & Co., for galvanized iron, labor, etc.....	3 55	
Pevey Bros., for castings.....	16	
Staples Bros., for drain pipe.....	2 68	
H. H. Wilder & Co., for marble bowl, lead pipe, solder, hose, labor, etc.....	46 55	
Samuel Young, for tubing and el- bows	2 50	
C B. Coburn & Co., for oil, alcohol, glass, waste, brushes, baskets, etc	126 47	
O. Duckworth, for oil and brush..	2 30	
Fiske & Spalding, for lead	6 87	
French & Puffer, for chimneys and globe	39	
H. Hosford & Co., for cloth.....	79	
Jonathan Kendall & Co., for glass, alcohol and naphtha.....	4 75	
Talbot Dyewood and Chemical Co., for muriatic acid.....	19	
Whiting & Weston, for straps....	35	
Sherman & Manning, for linoleum, duck and enamel cloth.....	50 29	
Standard Steam Lowell Carpet Beater and Cleanser Co., for cleaning carpet.....	1 75	
Lowell Gas Light Co., for gas.....	97 05	
N. E. Telephone & Telegraph Co., for telephone service.....	48 90	
H. C. Church & Son, for stationery, pens, pencils, rubber bands, etc,	1 85	
<i>Amounts carried forward</i>	\$ 5,196 12	\$ 1,840 79

Amounts brought forward \$ 5,196 12 \$ 1,840 79

Paid for SUNDRIES:

To O. L. Cambridge, for paper blocks,	43
J. Merrill & Son, for blank books, stationery, and ink.....	5 67
Campbell & Hanscom, for printing,	5 50
Citizen Newspaper Co., for print- ing	5 25
Marden & Rowell, for printing....	2 50
W. D. Cheney, for cash paid for postage and expressing.....	75
John F. Cosgrove, for scenery.....	50 00
T. M. Bolton & Co., for blanket, whip and repairing harness ..	1 85
Dyer & Patterson, for repairing harness, etc.....	7 40
Thomas C. Sawyer & Son, for sleigh and repairing carriage..	69 58
S. D. Butterworth, for mason work and material.....	73 60
E. W. Coburn, for mason work and material	99 00
Rollins & Sargent, for mason work and material.....	15 63
Robert Goulding, for slate, zinc and labor	14 50
S. A. Proper, for door and window,	2 50
Russell S. Clifford, for cleaning clock	75
J. H. Sparks, for treatment of horse	4 00
William E. Livingston, for coal, brick and sand.....	57 90
Atkins & Harmon, for carriage hire.....	2 00
George Richardson, for use of wagon	1 00
James Harrington, for teaming...	50
D. P. Knowlton, for teaming.....	50
T. G. Little, for teaming.....	1 00
Daniel McCarthy, for teaming....	1 00
McDonald & Mason, for teaming..	50
James Nixon, for teaming.....	3 50
Lovejoy-Paul Express Co., for . transportation	15

Amounts carried forward..... \$ 5,623 08 \$ 1,840 79

<i>Amounts brought forward</i>	\$5,623 08	\$1,840 79
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Paid for SUNDRIES :

To U. S. & C. Express, for transportation	1 60	
	<hr/>	5,624 68

Whole expenditure for the year.....		\$7,465 47
Balance undrawn Jan. 1, 1886.....		5,855 02

	<hr/>	\$13,320 49
	<hr/>	

CITY HALL BUILDING LOT.

Balance undrawn Jan. 1, 1885.....	\$6,498 26	
	<hr/>	\$6,498 26

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF CITY HALL
BUILDING LOT:

From Sundry persons for rent, as fol-
lows:

Mrs. Bohanan.....	\$ 96 00	
Antoine Bernard.....	88 00	
William Charlton.....	96 00	
Joseph F. Convery.....	64 00	
Michael Campion.....	96 00	
John F. Cosgrove.....	128 00	
John Gillon.....	108 00	
M. J. McDermott.....	120 00	
F. J. O'Rourke.....	108 00	
James M. Peirce.....	76 00	
Hattie Queenan.....	96 00	
Cornelius Regan.....	96 00	
W. N. Roberts.....	176 00	
M. W. Stockman.....	192 00	
W. N. Smith.....	192 00	
	<hr/>	1,732 00
		<hr/>
		\$8,230 26
		<hr/>

EXPENDITURES.

Paid for SUNDRIES :

To Appropriation for Roads and Bridges, for labor.....	\$ 23 76	
Appropriation for Public Buildings, for labor.....	738 93	
Appropriation for Water Works, for water.....	94 50	
Otis Allen & Son, for lumber....	8 54	
Badger & Holmes, for posts.....	15 00	
A. L. Brooks & Co., for lumber....	106 61	
Burnham & Moran, for lumber....	1 40	
William Kelley & Son, for sash and blinds	2 25	
Amasa Pratt & Co., for lumber....	40 40	
John C. Bennett, for hardware....	15	
H. B. Shattuck, for hardware.....	3 57	
Frederick Taylor & Co., for hardware	11 14	
O. E. Averill, for blacksmithing..	1 30	
H. R. Barker, for pipe, fittings and labor	2 48	
John Gilchrist, for pipe, fittings, solder and labor	46 99	
Wallingford & Callaghan, for sink and labor.....	2 75	
H. B. Barnes, for paper hangings and paste.....	5 60	
C. B. Coburn & Co., for paint and brush.....	31 59	
Fiske & Spalding, for lead, paper hangings, paste and glue.....	40 27	
William E. Livingston, for sand..	2 00	
Staples Bros., for drain pipe and cement	3 13	
Robert Goulding, for slate, zinc and labor.....	5 41	
S. H. Weaver & Son, for roofing..	10 20	
P. W. Brown, for labor.....	151 70	
Thomas F. Fay, for removing night soil	12 00	
T. G. Little for teaming.....	2 50	
Frank Meehan, for teaming.....	75	
Whole expenditure for the year.....		\$1,364 92
Balance undrawn Jan. 1, 1886.....		6,865 34
		<hr/> \$8,230 26 <hr/>

CITY LIBRARY.

Balance undrawn Jan. 1, 1885,.....	\$ 1,380 75	
Appropriated and assessed in 1885....	10,000 00	
	\$11,380 75	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF CITY LI-
BRARY :

From Reserved Fund, for dusters.....	\$ 8 10	
County of Middlesex, on account of dog licenses of 1884....	1,761 71	
Cupples, Upham & Co., for books.....	103 70	
Henry S. Courtney, for fines, catalogues, etc., to balance account of 1884.....	9 52	
Frank P. Hill, for catalogues, fines, subscriptions, lost books, waste paper, etc....	204 96	
Charles H. Burbank, for cata- logues, fines, subscriptions, lost and damaged books, waste paper, etc.....	79 47	
	2,167 46	
		\$13,548 21

EXPENDITURES.

Paid LIBRARIAN AND ASSIST-
ANTS:

To Henry S. Courtney, Librarian, salary.....	\$ 24 66	
Frank P. Hill, Librarian, salary...	1,100 34	
Charles H. Burbank, Librarian, salary.....	375 00	
Clara A. Beard.....	292 50	
Katie A. Cummings.....	106 50	
Harriet F. Hill.....	624 00	
Mary E. Hustwick.....	77 75	
Lizzie M. Woodward.....	104 00	
Florence M. Washburne.....	292 50	
Walker H. Gilman.....	711 00	
Daniel E. Hogan.....	166 50	
Arthur Pucell.....	36 00	
John Reardon.....	166 50	
Henry F. Sullivan.....	14 25	
Harry Spalding.....	17 25	
Thomas F. Gilligan.....	164 38	
Edward F. Slattery.....	613 25	
Stephen T. Wyman.....	711 00	
Roger Walker.....	182 25	
Fred A. Wright.....	446 25	
		<hr/>
		6,225 88

Paid for BOOKS, PERIODICALS,
ETC.:

To American Library Association.....	\$ 2 00	
James Anglin & Co.....	5 00	
American Antiquarian Society....	8 00	
D. Appleton & Co.....	6 00	
G. W. Bromley & Co.....	24 00	
D. G. Brinton.....	9 00	
W. H. Beehler.....	3 00	
F. P. Coggeshall.....	44 08	
Coughlin & Co.....	60 55	
Campbell & Hanscom.....	12 00	
Cupples, Upham Co.....	238 86	
S. E. Cassino & Co.....	21 00	
Carson, Steward & Co.....	12 00	
Church Press Co.....	4 00	
Citizen Newspaper Co.....	5 00	
C. C. Dawson.....	3 50	
		<hr/>
<i>Amounts carried forward.....</i>	<i>\$ 457 99</i>	<i>\$ 6,225 88</i>

Amounts brought forward..... \$ 457 99 \$ 6,225 88

Paid for BOOKS, PERIODICALS,
ETC. :

To Estes & Lauriat.....	1,103 18	
Silas Farmer & Co.....	10 00	
Eliza Hersey.....	5 00	
J. H. Hickcox.....	2 00	
Q. P. Index.....	2 10	
Library Bureau.....	40 30	
Charles F. Libbie & Co.....	4 50	
George E. Littlefield.....	21 93	
Lowell Daily Courier.....	6 00	
Marston & Prince.....	501 56	
Magazine of American History...	5 00	
W. A. Morrison.....	1 00	
L. C. Manchester.....	9 50	
Henry J. Morgan.....	2 50	
New England Historic Genealó- gical Society.....	3 00	
Henry C. Nash.....	48 00	
Office of Publishers' Weekly.....	12 20	
James R. Osgood & Co.....	15 00	
Publisher of Science.....	5 00	
Studies in Historical and Political Science.....	6 50	
J. M. Stoddard & Co.....	12 00	
Southern Historical Society.....	3 75	
Moses H. Sargent.....	1 25	
Woburn Board of Trade.....	2 13	
	<hr/>	2,281 39

Paid for SUNDRIES :

To Appropriation for School-Houses, for lumber and nails.....	\$ 67 84
Appropriation for Public Buildings, for labor.....	119 05
Badger & Holmes, for moulding, etc.....	1 75
A. L. Brooks & Co., for lumber...	10 36
Marshall & Crosby, for ash case...	17 00
Amasa Pratt & Co., for sash.....	60
Charles E. Adams, for ventilator and labor.....	24 50
H. B. Shattuck, for hardware.....	7 16
Frederick Taylor & Co., for hard- ware.....	1 09

Amounts carried forward..... \$ 249 35 \$ 8,507 27

Amounts brought forward..... \$ 249 35 \$ 8,507 27

Paid for SUNDRIES :

To C. Zimmer, for key.....	15	
H. R. Barker, for globes and hold- ers	1 30	
L. A. Derby & Co., for wire and labor	1 90	
T. R. Garity & Co., for pipe, fit- tings, basin, labor, etc.....	53 19	
S. G. Mack & Co., for copper and labor	2 31	
Benner Bros., for enamel cloth and tacks	1 40	
Gookin Bros., for matting.....	30 16	
Lowell Book Support Co., for book supports	5 00	
Offutt & Whitaker, for carpet lin- ing and labor	3 30	
J. F. Puffer & Son, for mirror and knob	1 12	
Standard Steam Lowell Carpet Beater and Cleanser Co, for cleaning carpet.....	4 75	
Sherman & Manning, for carpet, lining and labor.....	122 40	
John Welch, for labor on relics...	16 00	
S. H. Redmond, for signs.....	5 52	
Charles A. Spencer, for signs.....	6 00	
C. B. Coburn & Co., for glass, glue, soap, twine and brushes.....	21 21	
Charles E. Carter, for insect pow- der, gun and plaster.....	11 25	
O. Duckworth, for paint, varnish, brushes and brooms.....	7 80	
Fiske & Spalding, for signs and dusters.....	12 85	
Daniel Gage, for ice.....	25 95	
Kittredge & Co., for paste.....	4 64	
A. L. Kittredge, for labor.....	11 40	
Clinton L. Bruce, for parchement..	3 45	
Coughlin & Co., for stationery and rubber bands	9 81	
F. P. Coggeshall, for blank books, stationery and mucilage.....	34 06	
H. C. Church & Son, for stationery and tape.....	6 48	
<i>Amounts carried forward</i>	\$ 652 75	\$ 8,507 27

Amounts brought forward \$ 625 75 \$ 8,507 27

Paid for SUNDRIES:

To F. J. Flemings, for paper.....	99 90
Bachelor, Dumas & Co., for binding and cards.....	322 20
Ira Bradley & Co., for binding....	20 18
Campbell & Hanscom, for printing and avertising.....	117 50
Citizen Newspaper Co., for printing and advertising.....	61 44
Evening Democrat for advertising,	4 00
Harrington Bros., for printing....	76 25
Lowell Weekly Sun, for advertising.....	20 00
Morning Mail Co., for advertising,	19 42
Marden & Rowell, for printing and advertising.....	21 50
Vox Populi Office, for printing and advertising.....	45 00
Vox Populi Press, for printing....	57 50
Charles H. Burbank, for cash paid for postage, expressing, papers, pail, soap, labor, etc....	40 96
H. S. Courtney, for cash paid for postage stamps and traveling expenses.....	18 30
Walter H. Gilman, for cash paid for laundering towels.....	2 08
Frank P. Hill, for cash paid for postals, expressing, blank book, towels, keys, traveling expenses, etc.....	48 91
C. W. Cheney, for supper for committee of 1884.....	8 00
A. J. Derby, for supper for committee of 1884.....	7 00
Lowell Gas Light Co., for gas.....	295 70
Middlesex Electric Light Co., for lighting.....	608 00
N. E. Telephone and Telegraph Co., for telephone service....	60 00
Edson Block, for rent.....	662 50
Trustees of A. H. Hosford, for rent, heating and water.....	1,413 00
Lowell Post Office, for rent of box and keys.....	2 00

Amounts carried forward \$ 4,684 09 \$ 8,507 27 .

<i>Amounts brought forward.....</i>	\$4,684 09	\$8,507 27
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Paid for SUNDRIES :

To E. W. Coburn, for mason work and material.....	2 00	
Hutchins & Co., for watering street.....	6 50	
C. H. Hanson & Co., for teaming..	75	
G. E. Stanley, for transportation..	2 69	
Lovejoy-Paul Express Co., for transportation.....	15	
	<hr/>	\$4,696 18
Whole expenditure for the year.....		\$13,203 45
Balance undrawn Jan. 1, 1886.....		344 76
		<hr/>
		\$13,548 21
		<hr/>

HEALTH.

Appropriated and assessed in 1885.....	\$10,000 00	
	<hr/>	\$10,000 00

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF HEALTH:

From William M. Hoar, for sales of offal.....	\$325 00	
James W. B. Shaw, for sales of offal, manure and pigs.....	3,386 38	
	<hr/>	3,711 38
Transferred from Reserved Fund.....		3,328 50
		<hr/>
		\$17,039 88
		<hr/> <hr/>

EXPENDITURES.

Paid BOARD OF HEALTH:

To William M. Hoar, salary.....	\$ 41 67	
James J. McCarty, salary.....	500 00	
James W. B. Shaw, salary.....	458 33	
	<hr/>	\$1,000 00

Paid for HAY, GRAIN, ETC.:

To W. W. Butler, for straw.....	\$ 38 97	
A. W. Derbyshire & Co., for car- rots	13 00	
G. M. Foster, for hay.....	187 69	
	<hr/>	
Amounts carried forward.....	\$239 66	\$1,000 00
		<hr/>

Amounts brought forward..... \$ 239 66 \$ 1,000 00

Paid for HAY, GRAIN, ETC.:

To W. P. Foye, for corn, meal and shorts	15 90	
C. H. Hanson & Co., for hay and oats	824 30	
William E. Livingston, for oats, corn and meal.....	293 53	
Joseph Miller & Co., for oats, corn and meal.....	192 30	
Joseph Miller, for corn.....	2 48	
E. N. Wood & Co., for meal, corn and shorts.....	13 36	
	<hr/>	\$1,581 53

Paid for HORSES, CARRIAGES, HARNESSES, ETC.:

To Appropriation for Roads and Bridges, for sled, harness, shoeing horses and repairing carriages	\$451 05	
Charles F. Keyes, for horse.....	225 00	
James G. Noyes, for horse.....	250 00	
Charles D. Starbird, for wagon....	45 00	
S. L. Butman, for curry combs, brush and repairing harnesses,	38 50	
T. M. Bolton & Co., for repairing harnesses	6 75	
H. F. Ebert, for horse cover.....	3 50	
C. H. Hanson & Co., for collar, robe and blankets.....	18 62	
W. W. Kelley, for horse brushes..	5 00	
	<hr/>	1,043 42

Paid for SUNDRIES:

To Sundry persons, for labor as per pay-rolls.....	\$10,847 90	
Appropriation for Roads and Bridges, for services of watchman	78 25	
Appropriation for Police, for services of officers.....	47 50	
Appropriation for Water Works, for water.....	72 00	
<i>Amounts carried forward</i>	<hr/>	\$11,045 65 \$ 3,625 95

Amounts brought forward..... \$11,045 65 \$ 3,624 95

Paid for SUNDRIES :

To Burnham & Moran, for lumber....	43 27
Charles E. Adams, for hardware and tools.....	31 67
H. R. Barker, for pipe, fittings hose and labor.....	34 92
Farrell & Conaton, for labor.....	6 00
John Gilchrist, for labor.....	50
Hallowell & Berry, for nozzle.....	25
S. G. Mack & Co., for pails and pans.....	20 50
Nason B. Parsons, for keys and fil- ing saw.....	57
Union Iron Foundry Co., for cast- ings.....	5 22
H. H. Wilder & Co., for cuspa- dores, hods, tinware, flatirons, packing, labor, etc.....	41 03
C. Zimmer, for keys.....	1 00
Boutwell Bros. for shafts, hubs and spokes.....	2 81
C. B. Coburn & Co., for pails, brooms, mophandles, alcohol, etc.....	45 15
Henry Emery, for oil.....	7 12
French & Puffer, for tub, broom, basket, and washboard.....	1 73
William E. Livingston, for coal and lime.....	15 68
J. C. Storey & Co., for oil.....	7 00
Talbot Dyewood and Chemical Co., for copperas.....	4 20
Carleton & Hovey, for vaccine points and plaster.....	10 21
Albert Crowell, for medicine for horses.....	1 75
Ellingwood & Co., for vaccine points and plaster.....	598 49
C. R. Kimball, for liniment, drugs and syringe.....	19 73
G. Lawrence, for medicine for horses.....	5 00
National Plaster Co., for plaster..	4 00
S. E. Tweed, for liniment... ..	6 00
Lowell Gas Light Co., for gas.....	24 88

Amounts carried forward..... \$11,984 33 \$ 3,624 95

Amounts brought forward..... \$11,984 33 \$ 3,624 95

Paid for SUNDRIES:

To Proprietors of Locks and Canals on Merrimack River. for rent of land.....	15 00
Lowell Institution for Savings, for rent	94 44
W. P. Atwood, for examination of gas.....	2 00
H. B. & H. M. Bacon, for clock and thermometer.....	1 80
John E. Berry, for beds and bed- ding.....	13 00
A. G. Pollard, for flannel, towels, etc	7 59
F. P. Coggeshall, for blank books and stationery.....	10 30
Campbell & Hanscom, for advertis- ing.....	23 52
Citizen Newspaper Co., for print- ing and avertising.....	17 25
Evening Democrat for advertising,	5 50
Harrington Bros., for printing....	4 50
Morning Mail Co., for printing and advertising.....	29 50
Marden & Rowell, for printing and advertising.....	15 25
Vox Populi Office, for printing....	1 50
Vox Populi Press, for printing and advertising.....	13 50
A. V. Partridge, for posting.....	4 58
W. T. Downing, for provisions....	6 70
Henry Farrell & Son, for provi- sions	29 69
J. B. Richardson & Sons, for groce- ries, etc	98 94
Edward Cawley, for coal.....	21 00
S. H. Redmond, for signs.....	2 25
F. A. Bates, for cash paid for pipe, fittings, labor, etc.....	27 22
Joseph Lacrosse, for rent of stove,	4 50
J. J. Colton, for vaccinating, etc..	122 50
W. A. Johnson, for vaccinating...	31 00
James J. McCarty, for vaccinating,	80 00
R. Mignault, for vaccinating, etc..	39 50

Amounts carried forward..... \$12,706 86 \$ 3,624 95

Amounts brought forward..... \$12,706 86 \$ 3,624 95

Paid for SUNDRIES:

To A. Vincelette, for vaccinating....	24 00	
Oliver A. Willard, for vaccinating,	2 00	
Charles H. Ricker, for professional services.....	81 00	
Hermon J. Smith, for professional services.....	15 00	
J. H. Sparks, for professional services.....	6 00	
W. A. Sherman, for professional services.....	18 50	
Robert Wood, for professional services.....	25 50	
Patrick J. Cassidy, for services at pest-house	84 00	
Peter Janbard, for services at pest-house.....	62 00	
Mary King, for services at pest-house.....	32 50	
Melissa J. Reed, for services at pest-house.....	219 00	
Charles D. Starbird, for pasturing horse	6 00	
E. H. Morse, for carriage hire....	2 50	
O. E. Baril, for labor.....	4 50	
George L. Spalding, for labor....	4 00	
C. H. Hanson & Co., for teaming..	75 69	
Charles Lee, for teaming.....	45 00	
George E. Stanley, for transportation	63	
Lovejoy-Paul Express, for transportation.....	25	
	<hr/>	13,414 93
Whole expenditure for the year.....		<hr/> <hr/> \$17,039 88

WATER WORKS.

Appropriated and assessed in 1885....	\$3,000 00	
	<hr/>	\$3,000 00

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF WATER
WORKS :

From Sundry persons, for water in 1884.....	\$ 16,112 68	
Sundry persons, for water in 1885.....	142,981 43	
William Mullen, for overdraft..	42 00	
Commissioners of Sinking Funds, on loan	15,000 00	
	<hr/>	174,136 11
		<hr/>
		<u>\$177,136 11</u>

EXPENDITURES.

Paid PRESIDENT AND SUPER-
INTENDENT :

To Albert A. Haggett, President, sal- ary	\$102 42	
Walter Coburn, President, salary..	191 13	
Horace G. Holden, Supt., salary...	1,600 00	
	<hr/>	\$1,893 55
<i>Amount carried forward</i>		<hr/>
		\$1,893 55

WATER WORKS.

185

Amount brought forward \$ 1,893 55

Paid for LABOR AS PER
MONTHLY PAY-ROLLS:

In January..	\$1,383 17	
February.....	1,242 03	
March.....	1,193 46	
April.....	1,532 52	
May.....	1,716 74	
June.....	1,989 82	
July.....	1,994 84	
August.....	2,807 19	
September.....	1,935 64	
October.....	1,960 68	
November.....	2,026 33	
December.....	1,746 10	
	<hr/>	\$21,528 52

Paid for INTEREST:

To Sundry persons, on City of Lowell Water Loan Bonds.....	\$78,000 00	
Commonwealth of Massachusetts, on note.....	2,500 00	
City Institution for Savings, on note.....	3,250 00	
Lowell Institution for Savings, on notes.....	25,100 00	
Blake Bros. & Co., on notes.....	3,000 00	
	<hr/>	111,850 00

Paid for FUEL:

To Daniel Gage, for wood.....	\$ 9 89	
Franklin T. Wilson, for wood....	26 00	
D. W. Horne & Son, for coal.....	33 63	
William E. Livingston for coal....	56 00	
Whithed & Co., for coal.....	5,023 06	
	<hr/>	5,148 58

Paid for PIPE, METERS, HY-
DRANTS, ETC:

To H. R. Barker, for pipe and fittings,	\$ 970 54	
Boston Machine Manfg. Co., for nozzles.....	84 13	
Boston Lead Manfg. Co., for pig lead.....	245 49	
	<hr/>	
<i>Amounts carried forward</i>	\$ 1,300 16	\$140,420 65

Amounts brought forward..... \$1,300 16 \$140,420 65

Paid for PIPE, METERS, HY-
DRANTS, ETC.:

To Chapman Valve Manfg. Co., for water gates.....	723 50	
W. E. Desper & Co., for meters and repairing meters.....	936 49	
Florence Iron Works, for pipe....	2,765 80	
T. R. Garity & Co., for pipe and fittings	376 65	
Hill, Clark & Co., for springs. ...	1 12	
Ludlow Valve Manfg. Co., for hy- drants, pipe, etc.....	583 20	
Merrimack Iron Foundry, for cast- ings	12 68	
Millville Manfg. Co., for pipe	180 28	
George E. Martin, for indicator....	60 00	
Mellert Foundry & Machine Co., for pipe.....	1,160 76	
National Meter Co., for covers and packing.....	968 05	
Michael O'Brien, for meter.....	17 94	
Osgood & Hart, for service boxes..	3 93	
Sumner & Goodwin, for fittings...	44 50	
E. T. Smith, for meter.....	10 00	
Francis A. Sawyer, for meter.....	8 00	
Union Water Meter Co., for repair- ing meters.....	4 40	
Walworth Manfg. Co., for fittings and tools	201 40	
Henry R. Worthington, for meters, castings, etc.....	322 08	
Ward & Curley, for couplings and bibbs	268 28	
R. D. Wood & Co., for castings...	187 47	
John Walsh, for iron pipe.....	17 68	
Warren Foundry & Machine Co., for pipe and labor.....	102 33	
	<hr/>	10,256 70

Paid for REPAIRS AT RESER-
VOIR:

To Sundry persons, for labor as per- pay-rolls	\$ 605 37	
Appropriation for Roads and Bridges, for stone.....	27 50	
	<hr/>	
<i>Amounts carried forward</i>	\$ 632 87	\$150,677 35

Amounts brought forward..... \$ 632 87 \$150,677 35

Paid for REPAIRS AT RESER-
VOIR:

To Appropriation for Police, for ser- vices of officers.....	62 50
Appropriation for Public Build- ings, for nails and labor.....	38 37
William H. Ward, for labor, use of engine, derricks and tools....	9,842 57
A. P. Bateman, for lumber.....	112 05
Burnham & Moran, for lumber....	62 66
L. A. Derby & Co., for wire, but- tons, screws, brackets and la- bor.....	31 91
Miller Bros., for oil.....	1 29
S. G. Mack & Co., for stove, shovel and hod.....	8 72
N. E. Telephone & Telegraph Co., for telephone service.....	20 00
William P. Atwood, for analysis of soil	30 00
C. B. Coburn & Co., for oil, tallow and waste.....	29 87
Samuel Fletcher, for paving stone,	334 69
Benjamin Palmer, for stone.... ..	401 75
Luther F. Kittredge, for dry rub- ble wall, per contract.....	897 16
Luther F. Kittredge, for stone, use of derrick and labor.....	140 57
William E. Livingston, for cement,	123 42
Robert Goulding, for slate and la- bor.....	2 64
C. F. Blanchard, for medicine....	8 30
George E. Evans, for cash paid for traveling expenses, telegrams and expressing.....	17 68
N. C. Sanborn, for photographs....	53 65
Campbell & Hanscom, for adver- tising.....	4 50
Citizens Newspaper Co., for adver- tising.....	4 50
Evening Democrat, for advertising.	2 00
Marden & Rowell, for advertising,	5 25
Morning Mail Co., for advertising,	4 50
C. E. Bohonan, for carriage hire...	3 00
Charles F. Keyes, for carriage hire,	1 00

Amounts carried forward..... \$12,877 42 \$150,677 35

Amounts brought forward..... \$12,877 42 \$150,677 55

Paid for REPAIRS AT RESER-
VOIR:

To E. H. Morse, for carriage hire.....	2 00	
B. G. Brown, for teaming.....	199 17	
W. T. Griffin, for teaming and gravel.....	344 39	
C. H. Hanson & Co., for teaming.....	196 20	
P. Keyes & Son, for teaming.....	185 47	
McDonald & Mason, for teaming..	7 00	
J. L. Noyes & Son, for teaming...	439 50	
B. Riley, for teaming.....	98 25	
J. Ragen, for teaming.....	4 00	
O. A. Simpson, for teaming.....	36 00	
B. & L. R. R., for transportation..	188 26	
	<hr/>	14,577 66

Paid for SUNDRIES:

To Appropriation for School-Houses, for lumber	\$ 18 07	
Appropriation for Roads and Bridges, for services of City Engineer, blacksmithing, tools and labor.....	930 56	
Appropriation for Fire Department, for manure and flushing sewers.....	53 00	
Appropriation for Public Build- ings, for labor and material...	154 82	
Reserved Fund, for rent of store..	75 00	
Otis Allen & Son, for lumber.....	70 60	
Charles H. Burt, for lumber and labor.....	4 70	
A. L. Brooks & Co., for lumber.....	33 93	
Burnham & Moran, for lumber....	179 92	
A. P. Bateman for lumber.....	159 72	
Badger & Holmes, for lumber and labor	2 30	
William Kelley & Son, for sash and frames	1 25	
Amasa Pratt & Co., for lumber and doors	44 77	
Whitney & Tibbetts, for lumber...	1 76	
<i>Amounts carried forward</i>	<hr/> \$ 1,730 40	\$165,255 01

Amounts brought forward..... \$ 1,730 40 \$165,255 01

Paid for SUNDRIES :

To Proprietors of Locks and Canals on Merrimack River, for use of engine and kyanizing lumber,	74 84	
Charles E. Adams, for hardware and lanterns	26 43	
Sager Ashworth & Co., for files...	10 35	
Bartlett & Dow, for shovels.....	16 00	
John C. Bennett, for hardware and lantern	42 12	
H. B. Shattuck, for hardware.....	59 64	
Frederick Taylor & Co., for hard- ware, lead pipe, and pig lead..	1,396 72	
O. E. Averill, for blacksmithing..	6 00	
Boutwell Bros., for iron and steel.	62 65	
Browning, Ladd & Speirs, for water glasses.....	3 00	
Cahill Bros., for shoeing horses ..	23 25	
Cole & Nichols, for castings.....	423 32	
T. Costello & Co., for repairing stove	2 25	
Cook, Rymes & Co., for iron ram- mer.....	8 00	
George W. Fifield, for gear.....	3 00	
George W. Huntoon, for repairing tapping machines, etc.....	27 00	
J. H. Haskell, for keys and filing saws	6 05	
Johonnott & Co., for tripoli.....	6 00	
John T. Langford, for castings....	87 31	
Lowell Wrench Co., for wrenches and gears.....	13 20	
Lowell machine Shop, for castings, patterns, etc.....	13 00	
S. G. Mack & Co., for kettle, solder and labor.....	2 38	
Pevey Bros., for castings.....	4 88	
A. L. Ready, for iron weight.....	70	
Thomas L. Rushforth, for ratchet brace	3 00	
Seannell & Wholey, for re-tubing boiler per contract.....	100 00	
S. C. & G. H. Smith, for cap screws	2 20	
<i>Amounts carried forward</i>	\$ 4,153 69	\$165,255 01

Amounts brought forward..... \$ 4,153 69 \$165,255 01

Paid for SUNDRIES:

To Woods, Sherwood & Co., for tinning couplings.....	3 34
H. H. Wilder & Co., for bismuth and solder.....	4 30
N. J. Wier & Co., for lamps and kettle.....	1 30
C. Zimmer, for fitting keys.....	75
Burch & Fenton, for repairing level.....	50
H. P. Carter, for setting glass, etc.	1 75
T. M. Bolton & Co., for blankets, whip and repairing harness...	20 95
H. F. Ebert, for harness, cushion and socket.....	53 15
E. Dupont, for repairing carriage..	10 30
Henry J. Draper, for repairing sleigh and painting wagon....	32 00
William L. Swett, for repairing carriage.....	15 82
Carleton & Hovey, for matches, soap and blacking.....	7 71
C. B. Coburn & Co., for oil, tallow, japan, hose, packing, brooms, etc.....	332 72
Walter Coburn & Co., for waste...	24 13
W. W. Duncan, for repairing pipe,	1 00
Fiske & Spalding, for paper.....	7 00
French & Puffer, for brooms.....	3 00
Josiah Gates & Sons, for hose, couplings, ladder and labor...	20 87
Joshua Hovey, for leather.....	25
Samuel Horn & Co., for soap.....	5 44
L. Katzenstein & Co., for packing,	16 00
Miller Bros., for oil, etc.....	2 34
Nichols & Fletcher, for matches, brooms, soap, salt and powder	43 44
Revere Rubber Co., for valves....	41 18
A. L. Smith, for composition.....	10 43
George H. Sampson, for powder and exploders.....	37 90
Talbot Dyewood & Chemical Co., for oxalic acid and borax.....	5 82
Lowell Felting Mills, for felting..	16 39

Amounts carried forward..... \$ 4,873 47 \$165,255 01

Amounts brought forward..... \$4,873 47 \$165,255 01

Paid for SUNDRIES:

To U. S. and Foreign Salamander Felting Co., for felting.....	16 00
Henry W. Wellington, for packing,	5 25
Pettingell Chimney Cap Co., for glass pipe.....	1 00
C. H. Hanson & Co., for hay and straw.....	41 96
Knapp Bros., for carrots.....	16 94
William E. Livingston, for grain, straw, brick, etc.....	133 09
Joseph Miller & Co., for oats and corn.....	40 08
J. G. Rogers & Co., for oatmeal...	40
Stiles, Rogers & Co., for oatmeal..	4 20
Hugh Green, for stone.....	6 30
Staples Bros., for drain pipe.....	286 65
Whithed & Co., for lime, cement, and labor.....	5 90
E. A. & A. T. Smith, for repairing concrete	39 25
Adams & Co., for bedsteads, mattresses and carpet.....	22 15
W. T. Bradley, for bedding.....	6 50
Cutting & Bradt, for cloth.....	2 50
Lowell Gas Light Co., for meter connections and gas.....	129 98
N. E. Telephone & Telegraph Co., for telephone service.....	255 25
Bachelor, Dumas & Co., for blank books.....	61 00
Coughlin & Co., for diaries, envelopes, pens, pencils and erasers.....	22 65
H. C. Church & Son, for blank books, tags and frames.....	32 80
F. P. Coggeshall, for pens.....	1 75
Lowell Rubber Co., for rubber bands, stopples and hose.....	27 89
J. Merrill & Son, for stylographic pen.....	1 75
Schlicht & Field, for index.....	3 50
A. Whitney, for blank book and pencils	2 44

Amounts carried forward..... \$6,040 65 \$165,255 01

Amounts brought forward..... \$6,040 65 \$165,255 01

Paid for SUNDRIES:

To Citizen Newspaper Co., for advertising	10 25	
Campbell & Hanscom, for printing and advertising	79 80	
Democrat Office, for advertising..	6 00	
Harrington Bros., for printing....	71 20	
Oliver A. Libby, for printing.....	22 25	
Lowell Weekly Sun, for advertising	3 50	
Morning Mail Co., for printing, advertising and binding	49 07	
Marden & Rowell, for printing and advertising	45 25	
Salmon Bros., for postals, envelopes and printing	12 50	
The Sanitary News, for subscription	2 00	
Vox Populi Press, for printing....	3 75	
M. J. Brown, for binding maps....	2 00	
M. C. Huntoon, for rubber boots..	36 00	
O'Sullivan Bros., for rubber boots, Alvin Lawrence, for clock, repairing clock, etc	19 50	
Harry Raynes, for thermometer..	7 00	
W. P. Atwood, for analysis of water	50	
Samuel Cabot, Jr., for analysis of water	30 00	
Horace G. Holden, for cash paid for traveling expenses, rent of P. O. box, expenses of committee, and horse, wagon, sleigh and harness	70 00	
Horace H. Knapp, for cash paid for stamps, ink, blacking, traveling expenses, etc	453 56	
Anson Wheeler, for treatment of horses	59 70	
Luke McFarlin, for use of boats..	14 00	
George B. Whitney, for labor on hay	4 00	
William H. Ward, for use of engine, and pump and labor....	143 25	
	58 00	
<i>Amounts carried forward</i>	<hr/>	<hr/>
	\$7,243 73	\$165,255 01

Amounts brought forward..... \$7,243 73 \$165,255 01

Paid for SUNDRIES:

To E. H. Morse, for carriage hire.....	8 00	
Thomas F. Fay, for removing night soil	6 00	
B. G. Brown, for teaming.....	138 58	
W. T. Griffin, for teaming.....	11 25	
A. C. Ladd, for teaming.....	50	
Michael Maguire, for teaming, etc,	15 50	
McDonald & Mason, for teaming..	4 50	
John Ragen, for teaming.....	1 00	
Samuel Tompkins. for teaming....	19 50	
Lovejoy-Paul Express, for tran- sportation.....	6 00	
N. Y. & Boston Despatch Express Co., for transportation.....	60	
U. S. & Canada Express, for tran- sportation.....	8 85	
B. & L. R. R., for transportation..	371 80	
O. C. R. R., for transportation....	11 09	
Milton Fox, for amount awarded by referees for land and all other claims on account of High Service Reservoir.....	2,778 33	
Sundry persons, for amount refund- ed on Water Rates.....	1,092 32	
	<hr/>	11,717 55
Whole expenditure for the year.....		\$176,972 56
Balance undrawn Jan. 1, 1886.....		163 55
		<hr/>
		\$177,136 11

Expended in 1870.....	\$ 95,057 00
Expended in 1871.....	624,151 66
Expended in 1872.....	560,708 40
Expended in 1873.....	349,717 87
Expended in 1874.....	233,370 63
Expended in 1875.....	275,660 78
Expended in 1876.....	221,502 24
Expended in 1877.....	163,814 28
Expended in 1878.....	158,510 15
Expended in 1879.....	150,047 82
Expended in 1880.....	154,391 59
Expended in 1881.....	231,171 27
Expended in 1882.....	173,645 92

Expended in 1883.....	180,280 28	
Expended in 1884.....	175,290 02	
Expended in 1885.....	176,972 56	
Total expenditure to Jan. 1, 1886.....	<u> </u>	\$3,924,292 47
Total receipts to Jan. 1, 1886.....		<u>1,538,827 33</u>
Net cost of Water Works to Jan, 1, 1886.....		\$2,385,465 14

TAYLOR STREET.

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF TAYLOR
STREET:

From Appropriation for Roads and Bridges, for flagging.....	\$ 13 69	
Lowell Institution for savings, on loan and premium on same	30,300 00	
William H. Ward, for building, and rent of engine and pump.....	76 00	
	<u> </u>	\$30,389 69

EXPENDITURES.

Paid for SUNDRIES:

To Sundry persons, for labor as per pay-rolls	\$ 402 94	
Appropriation for Roads and Bridges, for services of City Engineer and assistants, lum- ber, stone, etc.....	2,502 04	
William H. Ward, for labor per- formed and material furnished as per contract.....	16,825 33	
William H. Ward, for interest on claim	97 97	
<i>Amount carried forward</i>	<u> </u>	\$19,828 28

Amount brought forward \$19,828 28

Paid for SUNDRIES:

To Burnham & Moran, for lumber....	25 74	
A. L. Brooks & Co., for lumber....	5 64	
Amasa Pratt & Co., for lumber....	38 77	
Charles E. Adams, for brimstone..	50	
H. B. & H. M. Bacon, for magnify- ing glasses.....	1 25	
Bartlett & Dow, for hardware....	1 55	
John C. Bennett, for hardware and paint.....	1 72	
American Bolt Co., for wedges and hammer.....	53 20	
Cole & Nichols, for castings.....	15 39	
Farrell & Conaton, for pipe, fittings and labor.....	9 89	
J. E. Griffin, for repairing pump..	3 50	
Charles Griffin, for repairing pump,	3 25	
T. R. Garity & Co., for fence per contract.....	294 00	
F. W. Proctor, for pipe and labor..	1 82	
Fiske & Spalding, for oil, lead, putty, etc.....	2 69	
George W. Rooks, for paint and labor.....	1 50	
James Slaven, for mason work....	63 00	
D. M. Prescott, for mortar.....	1 25	
E. A. & A. T. Smith, for concrete.	160 51	
Smith, Garity, Hoyt & Shedd, for loam.....	16 00	
John Donahoe, for damage to property by laying out Taylor street.....	12 00	
Michael Handley, for damages and use of land.....	25 00	
Thomas Finnick, for teaming.....	33 75	
Thomas Mooney, for teaming.....	54 00	
F. H. Penniman, for teaming.....	54 00	
B. Riley, for teaming.....	69 75	
Whole expenditure for the year.....		\$20,777 95
Balance undrawn Jan. 1, 1886.....		9,611 74
		<u>\$30,389 69</u>

TAYLOR STREET.

197

Expended in 1883.....	\$ 9,025 93	
Expended in 1884.....	70,841 89	
Expended in 1885.....	20,777 95	
Total expenditure to Jan. 1886.....	<u> </u>	\$100,645 77
Total receipts to Jan. 1, 1886.....		<u>111,44</u>
Net expenditure on account of Taylor Street to Jan. 1, 1886.....		<u>\$100,534 33</u>

SALARIES.

Balance undrawn Jan. 1, 1885.....	\$ 600 00	
Appropriated and assessed in 1885....	17,000 00	
	<hr/>	\$17,600 00
Transferred from Reserved Fund.....		390 04
		<hr/>
		<u>\$17,990 04</u>

EXPENDITURES.

Paid SALARIES OF SUNDRY OFFICERS :

To Edward J. Noyes, Mayor.....	\$2,000 00
Van B. Sleeper, City Treasurer and Collector of Taxes.....	2,500 00
David W. O'Brien, City Clerk....	29 60
Samuel M. Chase, City Clerk.....	1,770 40
David Chase, Auditor of Accounts and Clerk of Common Council,	1,800 00
Nathan D. Pratt, City Solicitor...	233 33
George F. Lawton, City Solicitor..	1,166 67
John Ewing, City Messenger.....	83 33
Girard P. Dadman, City Messenger	916 67
Wyllis G. Eaton, City Physician..	5 48
John J. Colton, City Physician...	394 52
James H. Riley, Sealer of Weights and Measures.....	40 32
Nathaniel E. Annis, Sealer of Weights and Measures.....	159 68
Alvin A. Hanscom, Inspector of milk.....	100 00
Luke McFarlin, Fish Warden....	30 00
Patrick Vaughn, Pound-keeper....	2 82
	<hr/>
<i>Amount carried forward</i>	\$11,242 82

SALARIES.

199

Amount brought forward \$11,242 82

Paid for SALARIES OF SUNDRY
OFFICERS:

To James Manuel, Pound-keeper.....	22 22
Charles W. Savage, Registrar of Voters	400 00
John J. Harvey, Registrar of Voters.....	400 00
J. Frank Page, Registrar of Voters	400 00
James Marren, Chairman of Board of Assessors.....	1,000 00
Michael H. McCue, Secretary of Board of Assessors.....	925 00
William W. Read, Assessor of Taxes	900 00
Fred N. Edgell, Assessor of Taxes.	900 00
Harrison W. Streeter, Assessor of Taxes	900 00
Alfred Barney, Assessor of Taxes.	900 00

Whole expenditure for the year.....

\$17,990 04

STATE AID.

For Disabled Soldiers and Sailors and
their Families, and for the Families
of the Slain, under an Act of the
Legislature of the Commonwealth,
Chapter 192, approved May 4, 1877,
and previous Acts :

Due from Commonwealth, Jan. 1, 1885,

\$9,044 57

\$9,044 57

The same amount is due from the Com-
monwealth, Jan. 1, 1886.

STATE AID.

For Disabled Soldiers and Sailors and
their Families, and the Families of
Deceased Soldiers and Sailors, un-
der an Act of the Legislature of
the Commonwealth, Chapter 301,
approved April 30, 1879 :

Balance undrawn Jan. 1, 1885.....	\$10,479 82	
	\$10,479 82	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF STATE AID :

From Commonwealth, for re-imburse- ment of State Aid for 1884.	\$10,687 50	
Sundry persons for overdraft, as follows :		
William J. Aharn.....	4 00	
John E. Brown.....	3 00	
John Briggs, Jr.....	4 00	
James M. Brown.....	4 00	
William A. Bromley.....	12 00	
Edward Burns.....	4 50	
Thomas Breen.....	4 00	
Bartholomew Crowley.....	4 00	
Alfred J. Caulfield.....	4 00	
Charles Day.....	4 00	
Joseph Donnelly.....	10 00	
Isaac E. Freeman.....	4 00	
Augustus Grant.....	4 00	
Wellington Greenleaf.....	4 00	
George W. Garland.....	8 00	
Patrick Griffin.....	8 00	
Amounts carried forward.....	\$10,773 00	\$10,479 82

Amounts brought forward..... \$10,773 00 \$10,479 82

Received into the TREASURY ON
ACCOUNT OF STATE AID:

From Jeremiah S. Hall.....	4 00	
George A. Johnson.....	4 00	
William Jefferson.....	4 00	
Michael Keogh.....	12 00	
John F. Keating.....	4 00	
John H. Keith.....	6 00	
Levi Lamphere.....	4 00	
Thomas Leach.....	4 00	
George A. Lancey.....	4 50	
James Laidilan.....	3 00	
Michael Lahiff.....	12 00	
Delos W. Manchester.....	4 00	
John Monehan.....	3 00	
Arthur McLaughlin.....	3 00	
Thomas K. Melnor.....	4 00	
Francis McRann.....	4 00	
John Meade.....	4 50	
Charles Nealley.....	4 00	
Patrick O'Rourke.....	4 00	
James O'Brien.....	4 00	
John Pierce.....	4 00	
Edwin P. Pearson.....	4 00	
Gardner Penniman.....	12 00	
Andrew Pettes.....	4 00	
George G. Richardson.....	4 00	
Charles W. Searle.....	4 00	
George W. Searles.....	4 00	
John Scully.....	4 00	
Joseph F. Slater.....	4 00	
Richard Thompson.....	4 00	
Peter Trainor.....	4 00	
Samuel Toper.....	1 50	
Charles E. Winn.....	9 00	
Josiah E. Wheat.....	4 00	
		10,935 50
		<u>\$21,415 32</u>

EXPENDITURES.

Paid Sundry persons for aid in 1885...	\$10,180 25	
Whole expenditure for the year.....		\$10,180 25
Balance undrawn Jan. 1, 1886.....		11,235 07
		<u>\$21,415 32</u>

AID FOR INDIGENT SOLDIERS & SAILORS.

For Indigent Soldiers and Sailors, under Chapter 252 of the Acts of the Legislature of the Commonwealth, Approved April 23, 1879 :

Balance undrawn Jan 1, 1885.....	\$6,181 65	
Appropriated and assessed in 1885....	3,000 00	
	<hr/>	\$9,181 65

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF INDIGENT
SOLDIERS AND SAILORS :

From Commonwealth, for re-imbursement of aid for Indigent Soldiers and Sailors for 1884,	\$4,505 00	
Sundry persons, for overdraft as follows :		
Daniel Crowley.....	24 00	
Charles Campbell.....	24 00	
Thomas Conley.....	8 00	
Richard Kane.....	12 00	
Edwin B. Lovejoy.....	8 00	
William F. Lyman.....	6 00	
Walker Lewis.....	6 00	
Thomas McNabb.....	6 00	
James Riley.....	14 00	
Thomas Toole.....	24 00	
	<hr/>	4,637 00
		<hr/>
		\$13,818 65

EXPENDITURES.

Paid Sundry persons for aid in 1885...	\$8,367 00	
City of Cambridge, for aid rendered Michael Sheridan and Thomas Moran in 1881.....	10 00	
	<hr/>	
Whole expenditure for the year.....		\$8,377 00
Balance undrawn Jan. 1, 1886....		5,441 65
		<hr/>
		\$13,818 65
		<hr/>

CITY DEBT.

Appropriated and assessed in 1885. . .	\$117,850 00	
	\$117,850 00	

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF CITY DEBT:

From Commissioners of Sinking Funds, from the Fund for the Reduction of the City Debt.....	\$30,000 00	
	\$30,000 00	
		\$147,850 00

EXPENDITURES.

To City Institution for Savings, a note which matured Oct. 1, 1885...	\$20,000 00
Commissioners of Sinking Funds, for instalment on loan of \$16,- 500, dated July 1, 1884.....	1,650 00
Commissioners of Sinking Funds, a note which matured Nov. 1, 1885.....	35,000 00
Commissioners of Sinking Funds, for intalment on loan of \$75,- 000, dated Aug. 4, 1884.....	7,500 00
Lowell Institution for Savings, a note which matured July 1, 1885.....	10,000 00
Lowell Institution for Savings, two notes which matured Nov. 1, 1885	35,000 00
	\$109,150 00
Amount carried forward	\$109,150 00

Amount brought forward \$109,150 00

To Lowell Institution for Savings, for instalment on loan of \$85,000 dated Dec 15, 1883.....	8,500 00
Lowell Institution for Savings, for instalment on loan of \$77,000, dated Dec. 15, 1883.....	7,700 00
Sundry persons, for bonds which matured May 1, 1885.....	7,500 00
Sundry persons, for bonds which matured June 20, 1885.....	15,000 00

Whole expenditure for the year.....

\$147,850 00

I N T E R E S T .

Balance undrawn Jan. 1, 1885.....	\$ 9,247 97	
Appropriated and assessed in 1885....	64,000 00	
	<hr/>	\$73,247 97

R E C E I P T S .

Received into the TREASURY ON ACCOUNT OF INTEREST:

From Sundry persons, for interest on taxes.....	\$3,540 18	
First National Bank, for interest on daily balances.....	8,496 91	
	<hr/>	12,037 09
		<hr/> <u>\$85,285 06</u>

E X P E N D I T U R E S .

Paid on ACCOUNT OF INTEREST :

To City Institution for Savings.....	\$ 3,155 00
Lowell Institution for Savings....	32,685 03
Lowell Fire Cent Savings Bank...	1,625 00
Trustees of Estate of Thomas Nes- mith.....	1,560 00
Trustees of Estate of Jonathan Tyler.....	600 00
Sundry persons, on Intercepting Sewer Loan Bonds.....	12,980 00
Sundry persons on Sewer Loan Bonds,.. ..	2,550 00
Sundry persons, on Central Bridge Loan Bonds.....	4,800 00
Commissioners of Sinking Funds..	5,040 55
Commonwealth, on temporary loan	1,364 58
	<hr/>
<i>Amount carried forward</i>	\$66,360 16

Amount. brought forward..... \$66,360 16

Paid on ACCOUNT OF INTEREST:

To U. S. Trust Co., of New York City,
on temporary loan..... 10,212 50

Whole expenditue for the year..... \$76,572 66

Balance undrawn Jan. 1, 1886..... 8,712 40

\$85,285 06

NATIONAL BANK TAX.

Balance undrawn Jan. 1, 1885.....	\$ 4,793 38	
Assessed on stock in National Banks, owned by non-residents.....	16,178 35	
	<u> </u>	\$20,971 73

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF NATIONAL
BANK TAX :

From Commonwealth, on tax of 1885..	\$3,985 61	
	<u> </u>	3,985 61
		<u> </u>
		\$24,957 34
		<u> </u>

EXPENDITURES.

Paid Commonwealth, on account of National Bank Tax of 1884...	\$ 253 30	
Commonwealth, on account of National Bank Tax of 1885...	16,087 89	
Fund for Ordinary City Debt.....	8,616 15	
	<u> </u>	
Whole expenditure for the year.....		\$24,957 34
		<u> </u>

STATE TAX.

Assessed in 1885.....	\$41,565 00	
	<u> </u>	<u>\$41,565 00</u>

EXPENDITURES.

Paid Commonwealth, State Tax.....	\$41,565 00	
	<u> </u>	<u>\$41,565 00</u>

COUNTY TAX.

Assessed in 1885.....	\$37,730 53	
	<hr/>	\$37,730 53

EXPENDITURES,

Paid County of Middlesex, County Tax		
1885.....	\$37,730 53	
	<hr/>	\$37,730 53
		<hr/>

T A X E S .

The amount of Taxes assessed on the Polls and on the Real and Personal Estate within the City of Lowell for the year 1885, was as follows:

Valuation of, and Tax on, Real and Personal Property,

Valuation.	Rate.	Tax.
Of Real Estate, \$37,179,135 00	Tax \$16.00 per \$1000	\$594,866 16
Personal Estate, 14,172,645 00	“ “ “ “	226,762 32
Total Valuation, \$51,351,780 00		\$821,628 48
Number of Polls, 15,790, at \$2.000 each,		\$31,580 00
Number of Polls, 19, at 50 cts. each—		9 50
Bank Tax assessed on shares of stock which were not included in the valuation of the City.....		16,178 35
Total amount of Taxes assessed in 1885,		\$869,396 33

Appropriated and Assessed in 1885,

For City Appropriation.....	\$756,750 00
State Tax.....	41,565 00
County Tax.....	37,730 53
National Bank Tax.....	16,178 35
Overlays.....	17,172 45
	\$869,396 33

TAXES.

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TAXES.

	Due Jan. 1, 1885, and assessed in '85	Abated in 1885.	Collected in 1885.	Due J'y 1, '86.
Taxes of 1881,	\$ 115 43	\$ 115, 43		
Taxes of 1882,	7,376 91	7,307 18	\$ 69 73	
Taxes of 1883,	16,851 40	9,118 14	6,446 53	\$1,287 73
Taxes of 1884,	77,098 27	1,067 85	57,198 51	18,831 91
Taxes of 1885,	869,396 33	4,086 97	789,731 82	75,577 54
Totals,	\$970,838 34	\$21,695 57	\$853,445 59	95,697 18

ABATEMENT OF TAXES.

Balance undrawn Jan. 1, 1885.....	\$28,611 66	
Overlays assessed in 1885.....	17,172 45	
	<hr/>	45,784 11

ABATEMENTS.

Abated by Assessors, on Taxes of 1881,	\$ 115 43	
Abated by Assessors, on Taxes of 1882,	7,307 18	
Abated by Assessors, on Taxes of 1883,	9,118 14	
Abated by Assessors on Taxes of 1884	1,067 85	
Abated by Assessors, on Taxes of 1885,	4,086 97	
	<hr/>	\$21,695 57
Abated by Assessors, on Taxes of different years, after payment.....		317 58
Balance undrawn Jan. 1, 1886.....		23,770 96
		<hr/>
		\$45,784 11

TEMPORARY LOANS.

RECEIPTS.

Received into the TREASURY ON
ACCOUNT OF TEMPORARY
LOANS :

From Commonwealth of Massachusetts,	\$ 50,000 00	
U. S. Trust Co., of New York..	400,000 00	
	<hr/>	\$450,000 00
		<hr/>

PAYMENTS.

Paid Commonwealth of Massachusetts,	\$ 50,000 00	
U. S. Trust Co., of New York.....	400,000 00	
	<hr/>	\$450,000 00
		<hr/>

SINKING FUNDS.

Sinking Fund for the Reduction of the Water Debt,

Appropriated and assessed in 1885....	\$25,000 00	
	<u> </u>	\$25,000 00
Paid Commissioners of Sinking Funds..	\$25,000 00	
	<u> </u>	\$25,000 00

Sinking Fund for the Payment of the Loan of 1876.

Appropriated and assessed in 1885.....	\$4,000 00	
	<u> </u>	\$4,000 00
Paid Commissioners Sinking Funds....	\$4,000 00	
	<u> </u>	\$4,000 00

Sinking Fund for the Payment of the Loan of 1880.

Appropriated and assessed in 1885....	\$4,000 00	
	<u> </u>	\$4,000 00
Paid Commissioners of Sinking Funds.	\$4,000 00	
	<u> </u>	\$4,000 00

City Hall Building Lot Sinking Fund.

Appropriated and assessed in 1885....	\$7,000 00	
	<u> </u>	\$7,000 00
		<u> </u>
Paid Commissioners of Sinking Funds,	\$7,000 00	
	<u> </u>	\$7,000 00
		<u> </u>

Aiken Street Sinking Fund.

Appropriated and assessed in 1885....	\$16,000 00	
	<u> </u>	\$16,000 00
		<u> </u>
Paid Commissioners of Sinking Funds,	\$16,000 00	
	<u> </u>	\$16,000 00
		<u> </u>

Sinking Fund for the High Service Water Supply.

Appropriated and assessed in 1885....	\$1,800 00	
	<u> </u>	\$1,800 00
		<u> </u>
Paid Commissioners of Sinking Funds,	\$1,800 00	
	<u> </u>	\$1,800 00
		<u> </u>

Sinking Fund for the Payment of the Loan of 1882.

Appropriated and assessed in 1885....	\$2,500 00	
	<u> </u>	\$2,500 00
Paid Commissioners of Sinking Funds,	\$2,500 00	
	<u> </u>	\$2,500 00

Sinking Fund for New Buildings at City Farm.

Appropriated and assessed in 1885....	\$5,000 00	
	<u> </u>	\$5,000 00
Paid Commissioners of Sinking Funds,	\$5,000 00	
	<u> </u>	\$5,000 00

Central Bridge Sinking Fund.

Appropriated and assessed in 1885....	\$9,600 00	
	<u> </u>	\$9,600 00
Paid Commissioners of Sinking Funds,	\$9,600 00	
	<u> </u>	\$9,600 00

Intercepting Sewer Fund,

Appropriated and assessed in 1885....	\$5,000 00	
	<u> </u>	\$5,000 00
Paid Commissioners of Sinking Funds,	\$5,000 00	
	<u> </u>	\$5,000 00

Fund for the Reduction of the Ordinary City Debt.

Balance undrawn Jan. 1, 1885.....	\$37,395 43	
	<u> </u>	\$37,395 43

RECEIPTS.

From Commonwealth, on account of Corporation Tax of 1884...	\$13,579 33	
	<u> </u>	
<i>Amounts carried forward.....</i>	\$13,579 33	\$37,395 43

SINKING FUNDS.

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Amounts brought forward..... \$ 13,579 33 \$37,395 43

From Commonwealth, on account of Corporation Tax of 1885...	34,086 54	
Commonwealth, on account of National Bank Tax of 1884,	4,540 08	
Commonwealth, on account of National Bank Tax of 1885,	4,076 07	
	<hr/>	\$56,282 02
		<hr/>
		\$93,677 45
		<hr/> <hr/>

PAYMENTS.

Paid Commonwealth, on account of Corporation Tax of 1884..	\$ 6 14	
Commissioners of Sinking Funds,	93,671 31	
	<hr/>	\$93,677 45
		<hr/> <hr/>

The value of the several Sinking Funds Jan. 1, 1886, which apply to the reduction of the Water Debt, as reported by the Commissioners of Sinking Funds, is as follows :

City of Lowell Water Loan Sinking Fund	\$459 982 43	
Sinking Fund for the reduction of the Loan of 1876.....	43,879 74	
Sinking Fund for High Service Water Supply.....	7,695 79	
	<hr/>	\$511,557 96

The value of the several Sinking Funds Jan. 1, 1886 which apply to the reduction of the Ordinary City Debt, as reported by the Commissioners of Sinking Funds, is as follows :

City Hall Building Lot Sinking Fund,	\$47,457 01
Sinking Fund for the Payment of the Loan of 1880.....	21,823 44
Aiken Street Sinking Fund.....	68,654 24
Sinking Fund for the payment of the Loan of 1882.....	7,777 48
	<hr/>

Amounts carried forward..... \$145,712 17 \$511,557 96

Amounts brought forward..... \$145,712 17 \$511,557 96

Sinking Fund for New Buildings at City Farm.....	15,545 86
Central Bridge Sinking Fund.....	29,878 19
Intercepting Sewer Fund.....	15,545 86
Fund for the payment of the Or- dinary City Debt.....	98,286 26

304,968 34

Total value of Sinking Funds, Jan. 1,
1886

\$816,526 30

The value of the Hapgood Wright
Centennial Trust Fund, Jan.
1, 1886.....

\$1,603 47

\$1,603 47

CARNEY MEDAL FUND.

* Received of James G. Carney, Esq., in 1858 and 1859, the amount of two hundred dollars, which is to remain a perpetual debt of the City forever; the interest to be ap- plied in payment for the "Carney Medals" to the departments of the High School (annually).....			\$200 00	
			<hr/>	\$200 00
Undrawn Jan. 1, 1886.....				<hr/> \$200 00

* One hundred dollars was donated Aug. 24, 1858, and accepted by the City Council Sept. 14, 1858, and one hundred dollars additional, July 16, 1859, and accepted July 26, 1859. For the information of the citizens of Lowell, the Auditor respectfully refers them to the "Annual Report of the School Committee," for the year 1859, where all the correspondence between the donor and the recipient may be found.

DUE FROM THE CITY ON WATER LOAN.

December 31, 1885.

Date of Notes and Bonds.	To WHOM PAYABLE.	Amount.	Per Cent.	Security.	Interest, when due.	Annual Interest.	Notes and Bonds When Due.
1870, Nov. 1,	Merchants National Bank	\$500,000 00	6	Bonds,	May 1 and Nov. 1,	\$30,000 00	1890, Nov. 1,
1870, Nov. 1,	Railroad National Bank	150,000 00	6	Bonds,	May 1 and Nov. 1,	9,000 00	1890, Nov. 1,
1870, Nov. 1,	City Institution for Savings	100,000 00	6	Bonds,	May 1 and Nov. 1,	6,000 00	1890, Nov. 1,
1870, Nov. 1,	Mechanics Savings Bank	50,000 00	6	Bonds,	May 1 and Nov. 1,	3,000 00	1890, Nov. 1,
1870, Nov. 1,	Lowell Five Cent Savings Bank	46,000 00	6	Bonds,	May 1 and Nov. 1,	2,760 00	1890, Nov. 1,
1870, Nov. 1,	Worcester Co. Institution for Savings	30,000 00	6	Bonds,	May 1 and Nov. 1,	1,800 00	1890, Nov. 1,
1870, Nov. 1,	Marlborough Sav. Bank, Marlborough,	10,000 00	6	Bonds,	May 1 and Nov. 1,	600 00	1890, Nov. 1,
1870, Nov. 1,	Lowell Water Loan Sinking Fund	4,000 00	6	Bonds,	May 1 and Nov. 1,	240 00	1890, Nov. 1,
1870, Nov. 1,	William Shepard	227,000 00	6	Bonds,	May 1 and Nov. 1,	13,620 00	1890, Nov. 1,
1870, Nov. 1,	Brewster, Sweet & Co.	160,000 00	6	Bonds,	May 1 and Nov. 1,	9,600 00	1890, Nov. 1.
1870, Nov. 1,	G. T. Williams	8,000 00	6	Bonds,	May 1 and Nov. 1,	480 00	1890, Nov. 1.
1870, Nov. 1,	R. L. Day & Cobb	5,000 00	6	Bonds,	May 1 and Nov. 1,	300 00	1890, Nov. 1.
1870, Nov. 1,	Frederick Bailey	3,000 00	6	Bonds,	May 1 and Nov. 1,	180 00	1890, Nov. 1.
1870, Nov. 1,	E. G. Woodman	2,000 00	6	Bonds,	May 1 and Nov. 1,	120 00	1890, Nov. 1.
1870, Nov. 1,	Lucian H. Read	2,000 00	6	Bonds,	May 1 and Nov. 1,	120 00	1890, Nov. 1.

1870, Nov. 1,	John F. Kimball		1,000 00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1,
1870, Nov. 1,	Weld Spalding		1,000 00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1870, Nov. 1,	James Harper		1,000 00	6	Bonds,	May 1 and Nov. 1,	60 00	1890, Nov. 1.
1871, May 1,	Lowell Institution for Savings		200,000 00	6	City's Note,	May 1 and Nov. 1.	12,000 00	1891, May 1,
1873, June 14,	Lowell Institution for Savings		100,000 00	6 $\frac{6}{10}$	City's Note,	June 14 and Dec. 14,	6,6000 00	1893, June 14.
1874, Oct. 14	City Institution for Savings		50,000 00	6 $\frac{1}{2}$	City's Note,	Apr. 14 and Oct. 14,	3,250 00	1894, Oct. 14.
1874, Nov. 12	Lowell Institution for Savings		100,000 00	6 $\frac{1}{2}$	City's Note,	May 12 and Nov. 12	6,500 00	1894, Nov. 12.
1876, June 15	Commonwealth of Massachusetts.		50,000 00	5	City's Note,	June 15 and Dec. 15,	1,250 00	1886, June 15.
1881, Nov. 1,	Blake Bros. & Co. (15 notes, \$5,000 each)		75,000 00	4	City's Notes,	May 1 and Nov. 1,	3,000 00	1911, Nov. 1.
1885, Dec. 3,	Commissioners of Sinking Funds.		15,000 00	3 $\frac{1}{2}$	City's Notes,	June 3 and Dec. 2,	525 00	1886, Dec. 3. (\$3,000 00)
			\$1,890,000 00				\$111,125 00	

NOTES AND BONDS DUE FROM THE CITY.

December 31. 1885.

Date of Notes.	To WHOM PAYABLE.	Amount,	Per Cent.	Interest, when due.	Interest due in 1885.	Notes and Instalments, when Due.
1862, Nov. 3,	City Institution for Savings . .	\$ 30,000 00	5½	May 3 and Nov. 3,	\$1,650 00	1887, Nov. 3.
*1871, Mar. 6,	Bequest of Thomas Nesmith . .	25,000 00	6	March 6 and Sept. 6,	1,500 00	Perpetual Debt.
+ 1871, Apr. 10.	Bequest of Thomas Nesmith . .	1,000 00	6	April 10 and Oct. 10,	60 00	Perpetual Debt.
1874, Aug. 7,	Lowell Institution for Savings . .	100,000 00	6½	Feb. 7 and Aug. 7,	6,500 00	1894, Aug. 7.
1874, Nov. 25,	Lowell Five Cent Savings Bank . .	25,000 00	6½	May 25 and Nov. 25,	1,625 00	1894, Nov. 25.
+ 1878, May 10,	Bequest of Jonathan Tyler . . .	10,000 00	6	May 10 and Nov. 10,	600 00	Perpetual Debt.
1880, Jan. 2,	Lowell Institution for Savings . .	85,300 00	4¾	Jan. 2 and July 2,	4,051 75	1890, Jan. 2.
1880, Mar. 25,	Lowell Institution for Savings . .	50,000 00	4 ²⁹ / ₁₀₀	March 25 and Sept. 25,	2,145 00	1890, March 25.
1881, Dec. 1,	Lowell Institution for Savings . .	5,000 00	4	June 1 and Dec. 1,	200 00	1891, Dec. 1.
1882, May 1,	Lowell Institution for Savings . .	195,000 00	4	May 1 and Nov. 1,	7,800 00	1892, May. 1,
1882, June 9,	Lowell Institution for Savings . .	60,000 00	4	June 9 and Dec. 9,	2,400 00	1892, June 9.
1882, Sept. 1,	Lowell Institution for Savings . .	30,000 00	4	March 1 and Sept. 1,	1,200 00	1892, Sept. 1
1882, Oct. 2,	Perkins, Dupee & Co. (bonds), .	50,000 00	4	April 2 and Oct. 2,	2,900 00	1902, Oct. 2.
1882, Oct. 2,	William Taylor (bonds)	6,000 00	4	April 2 and Oct. 2,	240 00	1902, Oct. 2.
1882, Nov. 1,	Brewster Bassett & Co. (bonds), .	120,000 00	4	May 1 and Nov. 1,	4,800 00	1892, Nov. 1.

1883, Apr. 2,	Perkins, Dupee & Co. (bonds) . .	25,000 00	4	April 2 and Oct. 2,	1,000 00	1903, April 2.
1883, Apr. 2,	Perkins, Dupee & Co. (bonds) . .	69,000 00	4	April 2 and Oct. 2,	2,760 00	1903, April 2.
1883, May 1,	Perkins, Dupee & Co. (bonds) . .	60,000 00	4	May 1 and Nov. 1,	2,250 00	1886, May 1, \$7,500 00.
1883, June 20,	Perkins, Dupee & Co. (bonds) . .	120,000 00	4	June 20 and Dec. 20,	4,500 00	1886, June 20, \$15,000 00.
1883, Dec. 15,	Lowell Institution for Savings . .	68,000 00	4	June 15 and Dec. 15,	2,720 00	1886, Dec. 15, \$8,500 00.
1883, Dec. 15,	Lowell Institution for Savings . .	61,600 00	4	June 15 and Dec. 15,	2,464 00	1886, Dec. 15, \$7,700 00.
1884, July 1,	Commissioners of Sinking Funds,	14,850 00	4	Jan. 1 and July 1,	594 00	1886, July 1, \$1,650 00.
1884, Aug. 4,	Commissioners of Sinking Funds,	67,500 00	4	Feb. 4 and Aug. 4,	2,700 00	1886, Aug. 4, \$7,500 00.
1885, Jan 15,	Lowell Institution for Savings . .	30,000 00	4	Jan. 15 and July 15,	1,140 00	1886, Jan, 15, \$3,000 00.
1885, July 24,	Commissioners of Sinking Funds,	35,000 00	3½	Jan. 24 and July 24,	1,225 00	1886, July 24, \$3,500 00.
1885, Sept. 19,	Commissioners of Sinking Funds,	20,000 00	3½	March 19 and Sept. 19,	7,00 00	1886, Sept. 19, \$2,000 00.
1885, Sept. 19,	Commissioners of Sinking Funds,	15,000 00	3½	March 19 and Sept. 19,	525 00	1886, Sept. 19, \$1,500 00.
	Amount of City Debt (ordinary),	\$1,378,250 00		Int. on ordinary City Debt,	\$59,349 75	
	Amount of Water Loans . . .	1,899,000 00		Int. on Water Loan,	111,125 00	
	Total amount of City Debt . .	\$3,268,250 00		Total Int. on City Debt,	\$170,474 75	

* Interest on the same (for the poor).

† Interest on the same (High-Street Church).

‡ Interest on the same (for the poor).

DEBTS DUE THE CITY.

JAN. 1, 1886.

For Taxes of 1883.....	\$ 1,287 73	
Taxes of 1884.....	18,831 91	
Taxes of 1885.....	75,577 54	
Sidewalk assessments.....	6,445 81	
Sewer assessments.....	3,547 23	
Water rates, service pipe, etc.....	16,202 97	
State Aid.....	9,939 25	
Aid for Indigent Soldiers and sailors.....	4,120 50	
Rent of Armories.....	800 00	
Rent of Police Court room.....	750 00	
Book Accounts.....	1,164 27	
	<hr/>	\$138,667 21

REAL ESTATE OWNED BY THE CITY.

City Government Building.....	\$ 83,000 00
Huntington and Jackson Halls.....	40,000 00
Market House.....	60,000 00
City Scales.....	1,000 00
High School-house, on Anne and Kirk Streets.....	47,000 00
Bartlett School-house, on Clark Street.....	18,000 00
Butler School-house, on Gorham Street.....	50,000 00
Colburn School-house, on Lawrence Street.....	18,000 00
Edson School-house, on Highland Street.....	22,000 00
Franklin School-house, on Branch Street.....	20,000 00
Green School-house, on Merrimack Street.....	105,000 00
Moody School-house, on East Merrimack Street.....	18,000 00
Mann School-house, on Lewis Street.....	18,000 00
Varnum School-house, on Myrtle Street.....	20,000 00
Highland School-house, on Pine Street.....	45,000 00
Pawtucket School-house, on Mammoth Road.....	53,000 00
Primary School-house, on Powell Street.....	7,000 00
Primary School-house, on Powell Street.....	5,000 00
Primary School-house, on Elliott Street.....	10,000 00
Primary School-house, on Church Street.....	6,500 00
Primary School-house, on School Street.....	6,000 00
Primary School-house, on Pond Street.....	5,000 00
Primary School-house, on High Street....	9,000 00
Primary School-house, on Carter Street.....	5,000 00
Primary School-house, on Charles Street.....	3,500 00
Primary School-house, on Fayette Street.....	3,500 00
Primary School-house, on Rock Street.....	3,000 00
Primary School-house, on Cabot Street.....	3,500 00
Primary School-house, on West Sixth Street.....	7,000 00
Primary School-house, on River Street.....	5,000 00
Primary School-house, on Ames Street.....	7,000 00
Primary School-house, on Tenth Street.....	7,200 00
Primary School-house, on Cheever Street.....	3,200 00
<hr/>	
<i>Amount carried forward</i>	\$714,400 00

<i>Amount brought forward</i>	\$714,400 00
Primary School-house, on London Street.....	4,000 00
Primary School-house, on Chapel Street.....	4,500 00
Primary School-house, on Central Street.....	12,000 00
Primary School-house, on Howard Street.....	5,000 00
Primary School-house, on Worthen Street	25,000 00
Primary School-house, on Lyons Street.....	20,000 00
Primary School-house, on Dover Street.....	6,500 00
Primary School-house, on Common Street.....	19,000 00
Primary School-house, on Agawam Street.....	7,200 00
Primary School-house, on Grand Street.....	5,500 00
Primary School-house, on Varnum Avenue.....	1,000 00
Primary School-house, on Mammoth Road.....	3,500 00
Primary School-house, on Kirk Street.....	20,000 00
Primary School-house, at Middlesex Village.....	3,000 00
Hose Carriage-house, on Fayette Street.....	4,000 00
Hose Carriage-house, on Fletcher Street	14,000 00
Hose Carriage-house, on Central Street.....	4,000 00
Hose Carriage-house, on Warren Street.....	3,500 00
Engine-house, on Gorham Street.....	12,000 00
Engine-house on Lincoln Street.....	500 00
Engine-house and Ward-room, on Branch Street....	18,000 00
Engine-house and Ward-room, on Fourth Street....	13,000 00
Chemical engine-house on Merrimack Street,.....	4,500 00
Engine-house, Hook and Ladder House, Ward-room, Carpenters' shop, and Armories on Middle Street,	34,500 00
City Farm and Buildings.....	95,000 00
Land and Buildings on Fletcher Street.....	3,500 00
Land and Buildings on Fletcher, Cross, and Lagrange Streets, and Broadway.....	55,000 00
Public Landing in rear of Market House.....	1,200 00
Lot of land on Chelmsford Street.....	1,600 00
Lot of land on Fletcher and Whiting Streets.....	1,400 00
Lot of land on First Street.....	190 00
Lot of land on Middle Street.....	14,000 00
Lot of land on Tenth Street.....	5,000 00
North Common.....	112,900 00
South Common.....	224,800 00
Mount Vernon Park.....	2,000 00
Belvidere Park.....	10,000 00
Wilson Park.....	1,600 00
City Hall Building Lot.....	100,000 00
	<hr/>
	\$1,589,790 00
	<hr/>

WATER WORKS.

The Real Estate and Personal Property belonging to
the City, occupied and used by the Water works,
net cost to Jan. 1, 1886..... \$2,385,465 14

BURIAL GROUNDS OWNED BY THE CITY.

No. 1 Burial Ground, on School Street.
No. 2 Burial Ground, on Gorham Street.
Edson Cemetery, on Gorham Street.

REAL AND PERSONAL PROPERTY OWNED BY THE CITY.

Real Estate.....	1,589,790 00
Water Works, net cost to Jan. 1, 1886.....	2,385,465 14
Personal property in care of Superintendent of.....	
Schools	20,000 00
Personal property in care of Superintendent of	
Streets, belonging to Streets.....	18,813 67
Personal property in care of Superintendent of	
Streets, belonging to Intercepting Sewer.....	1,950 00
Personal property in care of the Superintendent of	
Streets, belonging to Sewers and Drains.....	2,601 85
Personal property in care of City Engineer.....	600 00
Personal property in care of Superintendent of	
Institution at City Farm.....	20,264 65
Personal property at wood yard.....	1,565 00
Personal property in care of Chief of Police.....	2,850 00
Personal property in care of Chief Engineer of Fire	
Department.....	107,000 00
Personal property in care of Superintendent of Street	
Lights.....	25,000 00
Personal property in care of Librarian of City	
Library.....	32,000 00
Personal property in care of Board of Health.....	4,386 00
Personal property in care Sealer of Weights and	
Measures	162 00
Personal property in care of Superintendent of Public	
Buildings, not mentioned below.....	2,795 65
Furniture in City Hall, and in Huntington and Jack-	
son Halls.....	5,000 00
Furniture in School Houses.....	12,000 00
Bell on High Street Church.....	500 00
Clock on High Street Church.....	500 00
Debts due the City.....	138,667 21
Cash in Treasury.....	19,503 11
	<hr/>
	\$4,391,414 28
	<hr/>

SEWERS CONSTRUCTED IN 1885.

In Broadway, from the Sewer in Walker street to a point opposite the premises of F. C. Nichols, Belmont and Pine streets, from terminus of sewer formerly laid in Belmont street to a point opposite the premises of G. H. and C. A. Gilman.....	\$1,016 38
Boylston and Concord streets, from Concord river at Taylor street bridge to Rogers street....	842 41
Chelmsford street, from the Intercepting sewer to a point opposite the premises of Orren Hutchinson.....	9,412 92
Davis street, from Summer street to a point near Winter street.....	1,718 89
Gold street, from the sewer in School street to a point opposite the premises of William Whitmore.....	324 88
Mount Vernon street, from the terminus of the sewer formerly laid in said street to a point opposite the premises of Phineas Whiting..	455 29
Market and Dutton streets, (begun in 1884), from the Merrimack canal to Broadway.....	187 10
River street, from the West street sewer to a point opposite the premises of John Davis.	6,238 34
Royal street, from the sewer in Westford street to a point opposite the premises of Mrs. Wilson, (unfinished).....	364 14
Rogers street, from Concord street to Clay street, (unfinished).....	1,442 25
Talbot Street, from the terminus of the sewer formerly laid in said street to Belmont avenue.....	2,492 95
Twelfth street, from Wachusett street to June street	406 98
West Fourth street, from the terminus of the sewer formerly laid in said street to a point opposite the premises of E. E. McLearn....	1,019 35
Catch Basins.....	170 02
	4,563 47
	<hr style="border: none; border-top: 1px solid black; margin-bottom: 2px;"/> \$30,655 37

RENTS OF BUILDINGS OWNED BY THE CITY.

	Per Annum.
To Commonwealth, rooms for Armories.....	\$ 800 00
County of Middlesex, Police Court Rooms.....	750 00
Talbot Dyewood and Chemical Co., store and cellar in Market House Building.....	1,200 00
J. S. Anderson, store in City Hall Building.....	900 00
J. H. Guillet, store in City Hall Building.....	900 00
Lowell Water Works, office in City Hall Building	900 00
Carleton & Hovey, store in City Hall Building.	1,200 00
John Gillon, tenement on Moody street.....	108 00
F. J. O'Rourke, tenement on Moody street.....	108 00
Michael J. McDermott, tenement on Colburn street.	120 00
James M. Peirce, tenement on Colburn street...	192 00
Warren N. Roberts, tenement on Colburn street.	192 00
William N. Smith, tenement on Colburn street.	192 00
Moses W. Stockman, tenement on Merrimack street.....	192 00
John F. Cosgrove, tenement on Merrimack street	192 00
Michael Campion, tenement on Merrimack street	96 00
Cornelius Ragan, tenement on Merrimack street	96 00
William Charlton, tenement on Merrimack street	96 00
Mrs. Bohonan, tenement on Merrimack street...	96 00
Antoine Bernard, tenement on Merrimack street	96 00
Hattie Queenan, tenement on Merrimack street.	96 00
William H. Meloy, tenement on Central street.	60 00
	<hr style="width: 100%; border: 0.5px solid black;"/> \$8,582 00 <hr style="width: 100%; border: 0.5px solid black;"/>

LANDS AND BUILDINGS FOR WHICH THE CITY PAYS RENT.

	Per Annum.
To Boston & Lowell R. R. Co., for ground rent for Huntington and Jackson Halls.....	\$ 475 00
Trustees of A. H. Hosford, for rent of rooms for City Library.....	1,200 00
Edson Block, for rent of rooms for Free Read- ing Room.....	600 00
Clarence G. Coburn, for rent of Building for horse carriage in Pawtucketville.....	240 00
Proprietors of Locks and Canals on Merrimack River, for rent of land on Cheever and Aiken streets.....	21 00
Lowell Institution for Savings, for rent of room for Board of Health.....	200 00
	<hr/>
	\$2,736 00
	<hr/>

DAVID CHASE,

Auditor.

ACCOUNT OF THE CITY TREASURER AND COLLECTOR OF TAXES FOR 1885.

CITY OF LOWELL,

OFFICE OF THE CITY TREASURER AND COLLECTOR OF TAXES.

Jan. 1, 1886.

TO THE CITY COUNCIL :

Gentlemen :—I have the honor to submit herewith an account of the receipts and payments from Jan. 1, 1884, to Dec. 31, 1885.

Respectfully submitted,

VAN B. SLEEPER,

City Treasurer and Collector of Taxes.

DR. City of Lowell in Account with Van B. Sleeper,

For cash paid on account of—

Schools.....	\$160,983 30	
School Houses.....	34,720 49	
Streets.....	88,000 56	
Reserved Fund.....	26,265 42	
Paupers.....	66,311 96	
Police.....	67,015 41	
Fire Department.....	69,629 76	
Sewers.....	42,781 20	
Intercepting Sewer.....	393 83	
Commons.....	3,338 09	
Printing.....	2,782 44	
Lighting.....	45,319 15	
Public Buildings.....	7,465 47	
City Hall Building Lot.....	1,364 92	
Library.....	13,203 45	
Health.....	17,039 88	
Water Works.....	176,972 56	
Taylor Street.....	20,777 95	
Salaries.....	17,990 04	
State Aid.....	10,180 25	
State Aid—Indigent Soldiers and Sailors.....	8,377 00	
Interest.....	76,572 66	
Temporary Loans.....	450,000 00	
City Debt.....	147,850 00	
State Tax.....	41,565 00	
County Tax.....	37,730 53	
National Bank Tax.....	24,957 34	
Abatement of Taxes.....	317 58	
City of Lowell Water Loan Sinking Fund	25,000 00	
Sinking Fund, Loan of 1876.....	4,000 00	
Sinking Fund, Loan of 1880.....	4,000 00	
City Hall Building Lot Sinking Fund	7,000 00	
Aiken Street Sinking Fund.....	16,000 00	
High Service Water Loan Sink'g Fund	1,800 00	
Sinking Fund, Loan of 1882.....	2,500 00	
New Buildings at City Farm Sinking Fund.....	5,000 00	
Central Bridge Sinking Fund.....	9,600 00	
Intercepting Sewer Sinking Fund....	5,000 00	
Sinking Fund for Reduction of Ordinary City Debt.....	93,677 45	
	<hr/>	\$1,833,483 69
Cash Balance Dec. 31, 1885.....		19,503 11
		<hr/>
		\$1,852,986 80
		<hr/>

City Treasurer and Collector of Taxes for 1885.

CR.

By cash received on account of —		
Cash Balance, Jan. 1, 1885.....		\$21,481 29
Schools	\$ 1,632 22	
School Houses	20,421 88	
Streets	62,662 70	
Reserved Fund.....	56,427 59	
Paupers	10,226 42	
Police	11,514 47	
Fire Department.....	1,306 71	
Sewers	29,478 13	
Intercepting Sewer.....	700 19	
Commons.. . . .	310 80	
Printing.....	74 25	
Lighting	76 33	
Public Buildings	3,214 37	
City Hall Building Lot.....	1,732 00	
Library	2,167 46	
Health	3,711 38	
Water Works.....	174,136 11	
Taylor Street.....	30,389 69	
State Aid.....	10,935 50	
State Aid — Indigent Soldiers and Sailors	4,637 00	
Interest.....	12,036 00	
Temporary Loans.....	450,000 00	
City Debt.....	30,000 00	
National Bank Tax.....	3,985 61	
Sinking Fund for the Reduction of the Ordinary City Debt.....	56,282 02	
Taxes of 1882.....	69 73	
Taxes of 1883.....	6,445 53	
Taxes of 1884.....	57,198 51	
Taxes of 1885.....	789,731 82	
		<hr/> 1,831,505 51

\$1,852,986 80

IN BOARD OF ALDERMEN, Jan. 19, 1886.

Read and Referred to Committee on accounts.

Sent down for concurrence.

SAMUEL M. CHASE,

City Clerk.

IN COMMON COUNCIL, Jan. 26, 1886.

Read and referred in concurrence.

DAVID CHASE.

Clerk.

REPORT OF COMMISSIONERS OF SINKING FUNDS.

Gentlemen:—The Commissioners of Sinking Funds have the honor to submit the following report of the condition of the several Sinking Funds of the City of Lowell, Dec. 31, 1885:

Total increase of the Sinking Funds of the City of Lowell during the year ending Dec. 31, 1885.....	\$175,480 39
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The amount of the Sinking Funds which apply to the reduction of the City of Lowell Water Debt, Dec. 31, 1885.....	\$511,557 96
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The amount of the Sinking Funds which apply to the reduction of the City of Lowell Water Debt, Dec. 31, 1884 was.....	457,627 68
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Increase in the Sinking Funds which apply to the reduction of the City of Lowell Water Debt during the year 1885.....	\$53,930 28
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The amount of the Sinking Funds which apply to the reduction of the Ordinary City Debt of the City of Lowell, Dec. 31, 1885....	\$304,968 34
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<i>Amounts carried forward</i>	\$304,968 34	\$53,930 28
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Amounts brought forward \$304,968 34 \$53,930 28

The amount of the Sinking Funds
which apply to the reduction of
the ordinary City Debt of the City
of Lowell, Dec. 31, 1884, was.... 183,418 23

Increase in the Sinking Funds which
apply to the reduction of the
Ordinary City Debt of the City of
Lowell during the year 1885..... \$121,550 11

Total increase of the several Sinking
Funds of the City of Lowell
during the year 1885..... \$175,480 39

CHAS. M. WILLIAMS,
J. C. ABBOTT,
CHAS C. HUTCHINSON.

Sinking Fund Commissioners for the year 1885.

Water Loan Sinking Fund Account.

Total amount of this Fund Dec. 31, 1885..... \$459,982 43

RECEIPTS.

Receipts previous to Jan. 1, 1885.....	\$413,862 47
Cash appropriated by City Council of 1885.....	25,000 00
Interest on investments.....	20,785 05
Interest on daily balances.....	798 20
Payment of bonds matured.....	3,500 00
Payment of notes matured.....	45,000 00
Total receipts.....	<u>\$508,945 72</u>

PAYMENTS.

Cash paid for securities to Jan. 1, 1885.....	\$404,011 50
Cash paid for securities in 1885.....	84,689 56
Cash on deposit.....	20,244 66
	<u>\$508,945 72</u>
Total amount received to Dec. 31, 1885.....	\$508,945 72
Deduct for Bonds and Notes matured and paid.....	48,881 62
	<u>\$460 064 10</u>
Deduct for difference in accrued interest.....	81 67

Cost of Securities with cash on hand Dec. 31, 1885... \$459,982 43

Cost and character of the securities belonging to this fund, Dec. 31, 1885 —

One \$1,000 City of Salem 5 per cent. bond.....	\$1,176 81
One \$1,000 Town of Beverly 4 per cent. bond.....	1,040 23
One \$1,000 City of Lynn 5 per cent. bond.....	1,176 25
One \$27,000 Town of Marshfield 4 per cent. note....	27,877 50
One \$26,000 Town of Everett 7 per cent. note.....	33,879 43
Four \$1,000 Town of Danvers 5 per cent. bonds.....	4,722 89
Amount carried forward.....	<u>\$69,873 11</u>

<i>Amount brought forward</i>	\$ 69,873 11
Five \$1,000 City of Cambridge 6 per cent. bonds.....	5,895 82
One \$1,000 City of Lynn 6 per cent. bond.....	1,231 33
Three \$1,000 Town of Marshfield 4 per cent. bonds...	3,068 83
Thirty \$1,000 City of Lawrence 6 per cent. bonds....	29,427 34
Thirty-seven \$1,000 City of Bangor 6 per cent. bonds.	38,631 63
Four \$500 City of Bangor 6 per cent. bonds.....	2,180 00
Four \$1,000 Town of Arlington 6 per cent. bonds.....	4,572 50
Six \$1,000 City of Chelsea 6 per cent. bonds.....	6,857 34
One \$1,000 Town of Arlington 5 per cent. bond.....	1,084 30
Fourteen \$1,000 City of Providence, 3 Reg. 5 per cent. bonds	14,352 92
Nineteen \$1,000 City of Manchester 6 per cent. bonds,	21,394 99
Twenty \$500 City of Manchester 6 per cent. bonds...	11,270 50
One \$1,000 City of Nashua 6 per cent. bond.....	1,110 58
One \$200 City of Dover 6 per cent. bond.....	217 13
Twelve \$1,000 City of Portland 6 per cent. bonds....	12,890 75
Seven \$2,000 Town of Stoughton 4 per cent. bonds...	14,242 57
Twenty-five \$1,000 Town of Wayland 5 per cent. bonds,	25,929 16
One \$5,000 City of Lawrence 6 per cent. bond.....	5,764 16
One \$1,000 City of Somerville 5 per cent. bond.....	1,072 22
Twenty-three \$500 Town of Pawtucket 5 per cent. bonds	13,010 07
One \$1,000 City of Keene 6 per cent. bond.....	1,207 00
One \$5,000 City of Haverhill 6 per cent. bond.....	5,626 25
Fifty \$1,000 City of Lowell 6 per cent. bonds.....	52,334 05
Two \$1,000 City of Fall River 6 per cent. bonds.....	2,165 34
Three \$1,000 City of Portsmouth 4 per cent. bonds....	3,080 00
One \$1,000 City of Newburyport 4 per cent. bond....	1,034 00
Two \$1,000 City of Portsmouth 6 per cent. bonds....	2,322 00
One \$1,500 City of Portsmouth 4 per cent. bond.....	1,568 50
One \$1,000 City of Cambridge 5 per cent. bond....	1,105 84
Two \$1,000 City of Providence 5 per cent. bonds....	2,437 20
Three \$10,000 City of Providence 5 per cent. bonds..	35,638 79
Two \$500 Town of Wilton 6 per cent. bonds.....	1,081 33
Two \$1,000 City of Bangor 7 per cent. bonds.....	2,329 39
Four \$1,000 City of Lewiston 5 per cent. bonds.....	4,233 33
One \$20,000 City of Lowell 3 1-2 per cent. note.....	20,000 00
Five \$3,000 City of Lowell 3 1-2 per cent. notes.....	15,000 00
One \$500 State of New Hampshire 6 per cent. bond..	575 00
Three \$1,000 City of Springfield 6 per cent. bonds...	3,922 50
	<hr/>
	\$439,737 77
Cash on deposit in First National Bank in Lowell on interest	\$20,244 66
	<hr/>
	\$459,982 43

High Service Sinking Fund Account.

Total amount of this fund Dec. 31, 1885..... \$7,695 79

RECEIPTS.

Receipts previous to Jan. 1, 1885.....	\$5,619 16
Appropriated by City Council of 1885.....	1,800 00
Interest on investments.....	235 00
Interest on daily balances less overdraft (\$32.98).....	41 63
	<u>\$7,695 79</u>

PAYMENTS.

Paid for securities to Dec. 31, 1885.....	5,325 81
Cash on deposit in First National Bank in Lowell....	2,369 98
	<u>\$7,695 79</u>

Cost and character of the securities belonging to this fund Dec. 31, 1885:

One \$1,000 Town of Beverly 4 per cent. bond.....	1,035 55
One \$500 Town of Pawtucket 5 per cent. bond.....	569 72
One \$1,000 City of Providence 5 per cent. bond.....	1,220 54
Two \$1,000 City of Lowell 4 per cent. notes.....	2,000 00
One \$500 City of Lowell 4 per cent. note.....	500 00
	<u>\$5,325 81</u>
Cash on deposit in First National Bank in Lowell on interest	2,369 98
	<u>\$7,695 79</u>

Loan of 1876.

Total amount of this fund Dec. 31, 1885..... \$43,879 74

RECEIPTS.

Receipts previous to Jan. 1, 1885.....	\$38,146 05
Appropriated by the City Council of 1885.....	4,000 00
Interest on investments.....	1,646 00
Interest on daily balances.....	147 98
Securities matured and paid.....	7,150 00
Securities sold city of Lowell Water Loan Sinking Fund.....	29,774 65

\$80,864 68

Deduct for securities matured and paid	7,150 00
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\$73,714 68

Deduct for securities sold City of Lowell Water Fund,	29,774 65
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\$43,940 03

Deduct for difference in premium and accrued interest,	60 29
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\$43,879 74

PAYMENTS.

Cash paid for securities to Dec. 31, 1885.....	\$36,984 94
Cash on deposit in First National Bank.....	43,598 97
Cash on deposit, City Institution for Savings, book No. 39,720	280 77

\$80,864 68

Cost and character of securities belonging to this fund Dec. 31, 1885 :

Cash in First National Bank of Lowell.....	\$43,598 97
Cash in City Institution for Savings, book No. 39,720.	280 77

\$43,879 74

City Hall Building Lot Sinking Fund.

Amount of this fund Dec. 31, 1885..... \$47,457 01

RECEIPTS.

Receipts previous to Jan. 1, 1885.....	\$38,436 76
Amount appropriated by City Council of 1885.....	7,000 00
Interest on investments.....	1,904 00
Interest on daily balances.....	116 25
	<u>\$47,457 01</u>

PAYMENTS.

Amount paid for securities to Jan. 1, 1885.....	36,657 50
Cash on deposit in First National Bank	10,799 51
	<u>\$47,457 01</u>

Cost and character of the securities belonging to this fund, Dec. 31, 1885:—

Sixteen \$500 Town of Pawtucket 5 per cent. bonds...	\$9,013 05
Four \$1000 City of Holyoke 7 per cent. bonds.....	4,978 89
Nine \$100 State of New Hampshire 6 per cent. bonds	1,085 25
One \$1000 City of Providence 5 per cent. bond.....	1,201 25
Two \$1000 City of Lowell 6 per cent. bonds.....	2,384 16
Two \$1000 City of Springfield 6 per cent. bonds.....	2,641 66
One \$1000 City of Newburyport 4 per cent. bond....	1,030 00
Six \$1000 City of Providence 5 per cent. bonds.....	7,323 24
Seven \$1000 City of Lowell 4 per cent. notes.....	7,000 00
	<u>\$36,657 50</u>
Cash on deposit in First National Bank in Lowell,	10,799 51
	<u>\$47,457 01</u>

Aiken Street Sinking Fund.

Amount of this fund Dec. 31, 1885..... \$68,654 24

RECEIPTS.

Amount received previous to Jan. 1885.....	\$50,200 00
Amount appropriated by City Council of 1885.....	16,000 00
Interest on investments.....	2,375 00
Interest on daily balances.....	79 24
	\$68,654 24

PAYMENTS.

Cash paid for securities to Dec. 31, 1885.....	49,564 76
Cash on deposit in First National Bank in Lowell...	19,089 48
	\$68,654,24

Cost and character of the securities belonging to
this fund, Dec. 31, 1885:

One \$500 Town of Pawtucket 5 per cent. bond.....	\$569 72
One \$8,000 Town of Bedford seven per cent. bond....	10,220 00
One \$1,000 City of Cambridge 6 per cent. bond.....	1,308 33
Three \$1,000 City of Portland 6 per cent. bonds.....	3,610 00
One \$500 City of Keene 4 per cent. bond.....	525 05
One \$10,000 City of Providence, Reg. 5 per cent. bond,	12,111 12
One \$1,000 City of Providence 5 per cent. bond.....	1,220 54
Two \$500 City of Lowell 4 per cent. Notes.....	1,000 00
Nineteen \$1,000 City of Lowell 4 per cent. Notes....	19,000 00
	49,564 76
Cash on deposit in First National Bank in Lowell on interest	19,089 48
	\$68,654 24

Ordinary City Debt Sinking Fund.

Total amount of this fund, Dec. 31, 1885..... \$98,286 26

RECEIPTS.

Amount received previous to Jan. 1, 1885..... \$32,931 71
 City of Lowell on account of Corporation and
 National Bank tax..... 93,671 31
 Interest on investments..... 1,031 80
 Interest on daily balances..... 521 44
 Amount for securities sold and accrued interest..... 18,791 11

Total amount received to Dec. 31, 1885..... \$146,947 37
 Deduct for amount transferred to City of Lowell, to
 pay City Notes..... 30,000 00

\$116,947 37
 Deduct for securities sold..... 18,661 11

\$98,286 26

PAYMENTS.

Cash paid for securities to Jan. 1, 1885..... \$26,724 41
 Cash paid for securities in 1885..... 50,000 00
 Amount transferred to pay city note matured..... 30,000 00
 Cash on deposit in Mechanics Saving Bank, book No.
 14,747..... 171 30
 Cash on deposit in First National Bank in Lowell... 40,051 66

\$146,947 37

Cost and character of securities belonging to this
 fund, Dec. 31, 1885:—

One \$1,000 City of Lawrence 6 per cent. bond.... \$1,231 33
 One \$500 City of Keene 4 per cent. bond..... 525 05
 One \$1,000 City of Newburyport 4 per cent. bond.... 1,034 00
 One \$500 City of Lowell 4 per cent. note..... 508 75
 One \$500 City of Lowell 4 per cent. note..... 500 00
 Two \$1,000 Town of Arlington 5 per cent. bonds.... 2,264 17
 Two \$City of Lowell 4 per cent. notes..... 2,000 90

Amount carried forward..... \$8,063 30

<i>Amount brought forward</i>	\$8,063 30
One 15,000 City of Lowell 3 1-2 per cent note.....	15,000 00
One 35,000 City of Lowell 3 1-2 per cent. note.....	35,000 00
	<hr/>
	58,063 30
Cash on deposit in Mechanics Saving Bank, book No.	
14,747	171 30
Cash on deposit in First National Bank in Lowell...	40,051 66
	<hr/>
	98,286 26
	<hr/>

Sinking Fund for Loan of 1880.

Total amount of this fund, Dec. 31, 1885..... \$21,823 44

RECEIPTS.

Amount received previous to Jan. 1, 1885.....	\$17,060 41
Appropriated by City Council of 1885.....	4,000 03
Interest on daily balances.....	56,00
Interest on investment.....	707 00
Amount of two city of Lowell, Pawtucketville Main Sewer notes matured and paid.....	2,000 00
Total amount received to credit of the Fund, Dec. 31, 1885	\$23,823 44
Deduct for the payment of two City of Lowell notes paid Aug. 1885.....	2,000 00
	<u>\$21,823 44</u>

PAYMENTS.

Amount paid for securities to Dec. 31, 1885.....	\$16,741 80
Cash on deposit in First Bank in Lowell.....	7,081 64
	<u>\$23,823 44</u>

Cost and character of the securities belonging to this
fund Dec. 31, 1885 : —

One \$3,000 State of Rhode Island 6 per cent. bond....	3,830 00
Three \$1,000 City of Newton 5 per cent. bond.....	3,542 80
One \$500 Town of Pawtucket 5 per cent. bond....	569 72
Two \$1,650 City of Lowell 4 per cent. notes.....	3,300 00
Three \$1,000 City of Lowell 4 per cent notes.....	3,000 00
One \$500 City of Lowell 4 per cent note.....	500 00

\$14,741 80

Cash on deposit in First National Bank in Lowell on interest.....	7,081 64
--	----------

\$21,823 44

Loan of 1882 Sinking Fund.

Amount of this fund Dec. 31, 1885.....	\$7,777 48
--	------------

RECEIPTS.

Amount received to Jan. 1, 1885.....	\$5,067 25
Appropriated by City Council of 1885.....	2,500 00
Interest on investments.....	186 00
Interest on daily balances.....	24 23
	<hr/>
	\$7,777 48

PAYMENTS.

Cash paid for securities to Jan. 1, 1885.....	\$4,650 00
Cash on deposit in First National Bank in Lowell....	3,127 48
	<hr/>
	\$7,777 48

Cost and character of securities belonging to this fund, Dec. 31, 1885:—

One City of Lowell Intercepting Sewer 4 per cent. note,	\$1,650 00
Three City of Lowell Pawtucket Main Sewer 4 per cent. note.....	3,000 00
	<hr/>
	\$4,650 00
Cash on deposit in First National Bank in Lowell, on interest.....	\$3,127 48
	<hr/>
	\$7,777 48

Central Bridge Sinking Fund.

Amount of this fund, Dec. 31, 1885..... \$29,878 19

RECEIPTS.

Amount received previous to Jan. 1, 1885.....	\$19,471 08
Appropriated by City Council of 1885.....	9,600 00
Interest on investments.....	760 00
Interest on daily balances.....	47 11
	<u>\$29,878 19</u>

PAYMENTS.

Cash paid for securities to Dec. 31, 1885.....	\$19,000 00
Cash on deposit in First National Bank in Lowell, on interest	10,878 19
	<u>\$29,878 19</u>

Cost and character of the securities belonging to
this fund, Dec. 31, 1885:—

Three \$1,000 City of Lowell, Pawtucket Main Sewer 4 per cent. notes.....	\$ 3,000 00
Seven \$1,000 City of Lowell, Pawtucket Main Sewer 4 per cent. notes.....	7,000 00
Two \$500 City of Lowell, Pawtucket Main Sewer 4 per cent. notes.....	1,000 00
Seven \$1,000 City of Lowell, Pawtucket Main Sewer 4 per cent. notes.....	7,000 00
Two \$500 City of Lowell, Pawtucket Main Sewer 4 per cent. notes.....	1,000 00
	<u>\$19,000 00</u>
Cash on deposit in First National Bank in Lowell, on interest.....	\$10,878 19
	<u>\$29,878 19</u>

Intercepting Sewer Sinking Fund.

Amount of this fund Dec. 31, 1885..... \$15,545 86

RECEIPTS.

Amount received previous to Jan 1, 1885..... \$10,125 51
 Appropriated by City Council of 1885..... 5,000 00
 Interest on investments..... 398 00
 Interest on daily balances..... 22 35

\$15,545 86

PAYMENTS.

Cash paid for securities to Dec. 31, 1885..... \$ 9,950 00
 Cash on deposit in First National Bank in Lowell on
 interest 5,595 86

\$15,545 86

Cost and character of the securities belonging to
 this fund Dec. 31, 1885:

Three \$1,650 City of Lowell Intercepting Sewer 4
 per cent. notes \$4,950 00
 Five \$1,000 City of Pawtucketville Main Sewer 4 per
 cent. notes 5,000 00

\$9,950 00

Cash on deposit in First National Bank in Lowell,
 on interest..... \$5,595 86

\$15,545 86

New Building at City Farm Sinking Fund.

Amount of this fund Dec. 31, 1885..... \$15,545 86

RECEIPTS.

Amount received previous to Jan. 1, 1885.....	\$10,125 51
Appropriated by City Council of 1885.....	5,000 00
Interest on investments.....	398 00
Interest on daily balances.....	22 35
	<u>\$15,545 86</u>

PAYMENTS.

Cash paid for securities to Dec. 31, 1885.....	\$9,950 00
Cash on deposit in First National Bank of Lowell...	5,595 86
	<u>\$15,545 86</u>

Cost and character of the securities belonging to this fund, Dec. 31, 1885 : —

Three \$1,650 City of Lowell 4 per cent. notes.....	\$4,950 00
Five \$1,000 City of Lowell, Pawtucket Main Sewer 4 per cent. notes.....	5,000 00
	<u>\$9,950 00</u>
Cash on deposit in First National Bank in Lowell,..	\$5,595 86
	<u>\$15,545 86</u>

TO THE CITY COUNCIL OF THE CITY OF LOWELL:—

Gentlemen:—The Commissioners of Sinking Funds of the City of Lowell have the honor to report the condition of the Hapgood Wright Centennial Trust Fund at the close of the financial year ending Dec. 31, 1885:—

RECEIPTS.

Amount received to Jan. 1, 1885.....	\$1,494 64
Interest on investments.....	60 00
Interest on deposit.....	48 83
	<hr/>
	\$1,603 47

PAYMENTS.

Cash paid for securities to Dec. 31, 1885.....	\$1,140 08
Cash on deposit in Lowell Institution for Savings, book No. 54,679.....	164 19
Cash on deposit in City Institution for Savings, book No. 39,419.....	299 20
	<hr/>
	\$1,603 47

Cost and character of the securities belonging to
this fund Dec. 31, 1885:—

One \$1,000 City of Lawrence 6 per cent. bond.....	\$1,140 08
Cash on deposit in Lowell Institution for Savings....	164 19
Cash on deposit in City Institution for Savings.....	299 20
	<hr/>
	\$1,603 47

CHAS. M. WILLIAMS,
J. C. ABBOTT,
CHAS C. HUTCHINSON.

Sinking Fund Commissioners for the year 1885.

IN BOARD OF ALDERMEN, Jan. 23, 1886.

Read and referred to Committee on Accounts.

Sent down for concurrence.

SAMUEL M. CHASE,

City Clerk.

IN COMMON COUNCIL, Jan. 26, 1886.

Read and referred in concurrence.

DAVID CHASE.

Clerk.

CITY OF LOWELL.

LOWELL, MASS., March. 5, 1886.

TO THE CITY COUNCIL OF LOWELL:

The undersigned, the Joint Standing Committee on Accounts, assisted by Henry A. Piper, Esq., expert accountant of Boston, have made a careful examination of the accounts of the City Treasurer of Lowell, for the year ending Dec 31, 1885.

The accompanying report of Mr. Piper is herewith submitted. It shows that the Treasurer's Accounts for 1885 are correct and properly vouched for, and that the cash balance in the hands of the City Treasurer at the end of the year 1885, was verified by actual count of the cash as it stood on the 18th of February last, and agreed perfectly with the books.

Respectfully submitted,

JAMES FRANCIS,
GEORGE F. PENNIMAN.
HENRY L. NEWHALL,
CHAS. H. HOBSON,
LAWRENCE J. SMITH,

Joint Standing Committee on Accounts for year 1886.

REPORT OF THE ACCOUNTANT.

LOWELL, Feb. 18, 1886:

TO THE JOINT STANDING COMMITTEE ON ACCOUNTS FOR THE
CITY OF LOWELL :

Gentlemen:—Acting under the authority vested in you, I have made an examination of the books and doings of the City Treasurer for the year ending Dec. 31, 1885, and beg leave to submit the following report:—

I have examined the cash book, and verified the footings thereof, and have also examined the vouchers for all disbursements, with the exception of the monthly bill drafts which were examined by your committee. I have to report that every payment is supported by a voucher duly approved, and all of them appear to be legitimate and genuine. I have examined the tax receipts and water rates, and find the amounts as stated in detail to agree with the amounts entered in the cash book.

I have balanced the cash of the Treasurer as it stands this day and find it to be correct. His books call for a balance in his hands amounting to..... \$67,235 93

There was on deposit to the credit of the City of Lowell as certified by W. M. Sawyer, cashier of the First National Bank.....	\$72,473 49
Deducting for checks not yet presented at bank.....	<u>5,632 58</u>
Leaves amount as shown on Treasurers check-book	\$66,840 91
Cash in office.....	<u>395 02</u>
	<u><u>\$67,235 93</u></u>

The total amount received from Liquor Licenses during the year was.....	\$53,791 00
Of which one-quarter was paid to the State Treasurer, viz:.....	13,447 75
And the balance, amounting to.....	\$40,343 25
Was duly covered into the Treasury.	

The several amounts appropriated by the City Council to the Sinking Funds, I have verified on the Sinking Fund books, and find them duly entered therein.

The Treasurer's books show that the receipts of moneys during the year have amounted to.....\$1,831,505 51

In detail as follows, viz:

Schools.....	\$ 1,632 22
School-houses.....	20,421 88
Streets.....	62,662 70
Reserved Fund.....	56,427 59
Paupers.....	10,226 42
Police.....	11,514 47
Fire Department.....	1,306 71
Sewers.....	29,478 13
Intercepting Sewer.....	700 19
Commons.....	310 80
Printing.....	74 25
Lighting.....	76 33
Public Buildings.....	3,214 37
City Hall Building Lot.....	1,732 00
Library.....	2,167 46
Health.....	3,711 38
Water Works.....	174,136 11
Taylor Street.....	30,389 69
State Aid.....	10,935 50
State Aid, Indigent Soldiers and Sailors.....	4,637 00
Interest.....	12,037 09
Temporary Loans.....	450,000 00
City Debt....	30,000 00
National Bank Tax.....	3,985,61
Sinking Fund for the Reduction of the Ordinary City Debt.....	56,282 02
Taxes of 1882.....	69 73
Taxes of 1883.....	6,445 53
Taxes of 1884.....	57,198 51
Taxes of 1885.....	789,731,82
Total.....	<u>\$1,831,505 51</u>

The total disbursements were \$1,833,483 69

Viz: On account of —

Schools	\$160,983 30
School-houses	34,720 49
Streets	88,000 56
Reserved Fund	26,265 42
Paupers	66,311 96
Police	67,015 41
Fire Department	69,629 76
Sewers	42,781 20
Intercepting Sewer	393 83
Commons	3,338 09
Printing	2,782 44
Lighting	45,319 15
Public Buildings	7,465,47
City Hall Building Lot	1,364 92
Library	13,203 45
Health	17,039 88
Water Works	176,972 56
Taylor Street	20,777 95
Salaries	17,990 04
State Aid	10,180 25
State Aid I. S. & S.	8,377 00
Interest	76,572 66
Temporary Loans	450,000 00
City Debt	147,850 00
State Tax	41,565 00
County Tax	37,730 53
National Bank Tax	24,957 34
Abatement of Taxes	317 58
City of Lowell Water Loan Sinking Fund	25,000 00
Loan of 1876 Sinking Fund	4,000 00
Loan of 1880 Sinking Fund	4,000 00
City Hall Building Lot Sinking Fund	7,000 00
Aiken Street Sinking Fund	16,000 00
High Service Water Loan Sinking Fund	1,800 00
Loan of 1882 Sinking Fund	2,500 00
New Building at City Farm Sinking Fund	5,000 00
Central Bridge Sinking Fund	9,600 00
Intercepting Sewer Sinking Fund	5,000 00
Reduction of Ordinary City Debt Sinking Fund	93,677 45

Total \$1,833,483,69

The balance on hand Jan. 1 1885, was \$ 21,481 29 .

The receipts for the year 1885. 1,831,505 51 .

Amount carried forward \$1,852,986 80

<i>Amount brought forward</i>	\$1,852,986 80
The disbursement for the year 1885.....	1,833,483 69
Leaving in hands of Treasurer on Dec. 31, 1885.....	\$ 19,503,11
The Collector's account of Taxes shows as follows, viz.:	
Uncollected taxes Jan. 1, 1885,	
For year 1881.....	\$ 115,43
For year 1882.....	7,376 91
For year 1883.....	16,851 40
For year 1884.....	77,098 27
	<hr/>
	\$101,442 01
Reassessments on account of 1883.....	72,35
Reassessments on account of 1884.....	402 22
Reassessments on account of 1885.....	2,014 01
Tax warrant for year 1885.....	868,605 71
	<hr/>
Total.....	\$972,536 30

The abatements made in 1885 were:

On account of year 1881.....	\$ 115 43
On account of year 1882.....	7,307 18
On account of year 1883.....	9,190 49
On account of year 1884.....	1,470 07
On account of year 1885.....	5,310 36
	<hr/>
	\$23,393 53

The amount collected was:

On year 1882.....	\$ 69 73
On year 1883.....	6,445 53
On year 1884.....	57,198 51
On year 1885.....	789,731 82
	<hr/>
	\$853,445 59

The amount uncollected Dec. 31, 1885, was:

On year 1883.....	\$ 1,287 73
On year 1884.....	18,831 91
On year 1885.....	75,577 54
	<hr/>
	\$95,697 18
	<hr/>
	\$972,536 30

I have examined the income derived from investments by the Sinking Fund Commissioners, and find that it has all been duly entered upon the Treasurers books and properly accounted for.

As the result of my examination, I have to report that I found everything in connection with the books to be correct and that they have been kept accurately.

HENRY A. PIPER,

Accountant.

IN COMMON COUNCIL, March 9, 1886.

Read and accepted ; sent up for concurrence.

DAVID CHASE.

Clerk.

IN BOARD OF ALDERMEN, March 16, 1886.

Read and accepted in concurrence.

SAMUEL M. CHASE,

City Clerk.

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ANNUAL REPORT
OF THE
BOARD OF DIRECTORS
OF THE
LOWELL CITY LIBRARY,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

IN COMMON COUNCIL, Dec. 22, 1885.

Read and sent to the Board of Aldermen.

DAVID CHASE,

Clerk.

IN BOARD OF ALDERMEN, Dec. 31, 1885.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

DIRECTORS, LIBRARIANS,
AND
ASSISTANTS,
OF THE
LOWELL CITY LIBRARY, 1885.

BOARD OF DIRECTORS.

Ex Officio, { EDWARD J. NOYES,
Mayor of the City.
ALFRED M. CHADWICK,
President of the Common Council.

Ward 1—LAWRENCE CUMMINGS,

Ward 2—WILLIAM P. BARRY,

Ward 3—HARRY DUNLAP,

Ward 4—WILLIAM J. COUGHLIN,

Ward 5—FREDERICK TAYLOR,

Ward 6—WILLIAM G. WARD.

LIBRARIANS.

FRANK P. HILL,.....From January 1, to September 30.

CHARLES H. BURBANK,....From October 1, to December 31.

ASSISTANTS.

WALTER H. GILMAN,

STEPHEN T. WYMAN,

FRED A. WRIGHT,

HARRIET F. HILL,

CLARA BEARD,

FLORENCE M. WASHBURN,

ROGER WALKER,

JOHN RIORDAN,

DANIEL E. HOGAN.

SUPT. OF READING ROOM.

EDWARD F. SLATTERY.

REPORT.

TO THE CITY COUNCIL OF LOWELL :

The Directors of the City Library herewith submit their Annual Report for the year 1885.

FINANCIAL STATEMENT.

RECEIPTS.

Balance on hand Dec. 20, 1884.....	\$1,380 75
Appropriation by City Council.....	10,000 00
Dog tax for 1884, transferred to Library account.....	1,761 71
All other receipts.....	405 75
	<hr/>
	\$13,548 21

EXPENDITURES.

Salaries	\$6,225 88
Rent and heating Library and Reading Room.....	2,175 50
Lighting.....	818 20
Books and periodicals.....	2,281 39
Binding.....	342 38
All other expenses.....	1,360 10
	<hr/>
	\$13,203 45
Balance unexpended.....	344 76
	<hr/>
	\$13,548 21

CONDITION OF THE LIBRARY.

Volumes purchased.....	967
Volumes added by gift.....	139
Periodicals and papers bound.....	235
Total volumes added.....	1,341
Total volumes in Library, about....	30,000
Volumes lost and unpaid for.....	8
Estimated value of volumes lost.....	\$6.94
Number of periodicals and papers supplied for Reading Room.....	162
New subscribers.....	2,257
Total number of subscribers registered.....	9,204
Cards withdrawn for non-payment of fines, removals, etc., from Oct. 1883 to date.....	2,128
Total number of subscribers at date.....	7,076

The above comprises all the information specifically required by the ordinances, but the following statistics are of interest :

CIRCULATION.

		Per cent.
Fiction.....	108,028	.87
Other classes.....	14,306	.13
Total circulation.....	123,334	

CIRCULATION BY MONTHS.

		Volumes.	Daily Average.
December, 26 days.....		10,973	422
January, 27 ".....		12,595	467
February, 23 ".....		11,479	499
March, 26 ".....		12,475	479
April, 25 ".....		10,469	418
May, 25 ".....		9,443	377

		Volumes.	Daily Average.
June,	26 days.....	8,988	345
July,	26 “	8,582	330
August,	25 “	9,070	363
September,	26 “	9,198	353
October,	27 “	9,911	367
November,	24 “	10,151	423
	<hr/> 306	<hr/> 123,334	<hr/> 403

Largest circulation, Nov. 28.....803

Smallest circulation, Oct. 6.....153

The Library has been open every day during the year, with the exception of Sundays and the public holidays, the day of the General Grant memorial exercises, and a part of the day of the funeral of Vice President Hendricks. The plan introduced last year of opening the Reading Room during the day-time on Sundays has been continued with good results.

The year just closed has been an important one in the annals of the Library. The fact that for the first time since the Library was closed for alterations in July, 1883, every book can now be found by means of the convenient Card Catalogue, marks a new era in its history.

Mr. Frank P. Hill, who was elected Librarian at the beginning of the year, resigned in July, his resignation to take effect October 1, and July 28 Mr. Charles H. Burbank was elected by the City Council to succeed him, and entered upon his duties at the time designated.

During Mr. Hill's incumbency, two thousand new

books which had been purchased just prior to his coming into office were classified, numbered and put in circulation, and six hundred and eighty-two additional volumes were added to the Library. He also prepared and had printed for use in connection with the Card Catalogue, an Index to Subjects. At the time he relinquished office all the books in the Library were ready for use, with the exception of pamphlets, which await classification and cataloguing.

Upon Mr. Burbank's accession, the work of making subject references for the entire Library was at once begun, and has been continued as rapidly as a multitude of other duties of daily routine would permit. This is a labor of great importance and it is being done very thoroughly. Its object is to show readily what the Library contains upon any given subject, and make its information accessible to all who desire it. When this work is finished the printed catalogue can soon be prepared. It is hoped and expected that this will be completed during the coming year. It will be a compilation of great value and completeness. The elaborate system of cross references previously mentioned will unlock the treasures of knowledge hitherto hidden in many unsuspected places, and put them at the command of the student and the curious. An extra appropriation will be needed to pay for printing the long-desired Catalogue.

It has been well said, that "the City which does not use the public library as an adjunct of the public school, must in a few years see its educational system

condemned as antiquated and defective." And says Senator Hoar : " The library, in the new education, is to continue through life, for many persons, the education which the school begins It enables children to begin at an early age the practice of original investigation." With a few honorable exceptions among our teachers, the connection of the Library with the public schools is slight, except through the pupils themselves. A large proportion of the great number of children who habitually resort to the Library are actuated chiefly by a desire to procure entertaining reading. Some, however, have learned how to turn the Library to account in the prosecution of their studies, and many more would be induced to employ it for that purpose could the interested co-operation of their teachers be secured. It is the earnest desire of the Librarian that more should be done in this direction, and he is ready at all times to afford every aid in his power to accomplish so desirable a result.

The numerous reading, historical, and other literary clubs which abound in our city have proved a powerful incentive to study and research, and the Librarian is frequently called upon to furnish books and information upon the varied subjects under consideration by these circles of students. The Library is reasonably well stored with suitable works for this purpose, and there is scarcely a subject on which some light cannot be shed. But an occasional deficiency appears, which it is always the aim to remedy as soon as possible after it becomes known.

It is hoped at an early day, by a rearrangement of some departments, to restore fully the so-called Directors' Room to its previous use as a reference room for the convenience of those who desire to consult books which are not allowed to be taken from the Library building. If this should be accomplished, all the dictionaries, encyclopædias and catalogues, together with valuable works on art, science, history, etc., will be shelved in that room, to be had for the asking, for use therein as leisurely as may be desired. A new carpet has recently been laid there, and the room made more attractive in other ways.

Not all who frequent the Library remember as they ought to do that it is a place of business—for the selection and speedy return and delivery of books—and should be so used only, with due regard to its somewhat straitened proportions. It should not be made a place of social resort, nor occupied by loiterers. The public are generally well behaved in the Library, but in view of a tendency towards such misuse of the place as has been indicated, it may not be amiss to establish a rule prohibiting loud talking, prolonged conversations or unnecessary noise in the Library.

The Reading-Room, established a little more than two years ago, has proved a great success, as is denoted by the almost constant presence, while it is open, of a large number of interested readers, often taxing the capacity of the limited accommodations to the utmost. The demand for larger quarters is im-

perative. Fortunately, an opportunity is presented of obtaining more ample space in the new building of the Wyman heirs on Middle Street. Access to this building is had by the same entrance on Merrimack Street as to the present Reading-Room, besides an entrance from Middle Street. Here an entire floor of the building is at our disposal for this important purpose. This will afford space for a new work-room for the Library, as well as a much larger area for a reading-room, a portion of which can well be assigned for the exclusive accommodation of women, many of whom would gladly avail themselves of the privileges of the Reading-Room were they not debarred by the presence of such large numbers of men. The present work-room of the Library would thus be gained as an additional receptacle for books. The Reading-Room is profusely supplied with the best periodical literature of the day, representing almost every department of letters and learning. It is frequented by all classes of citizens, from the laboring man eager for the daily newspaper to the artisan or tradesman seeking the latest information from his particular technical journal, and the scholar and man of letters desirous of perusing the more ponderous reviews. The wisdom of establishing this important adjunct to the Library has been fully demonstrated.

The time is not far distant when the City will be confronted with the problem of providing a new place for the rapidly increasing Library, and it cannot be improper to keep this matter before the public. The

first requisite of such a place is an isolated building, where our literary treasures may be kept with reasonable safety in regard to fire. Next in order should be accommodations for the prospective growth of the Library and of the City for many years to come, convenient provisions for the efficient administration of the institution, and, finally, such a modest display of good taste in the design and appointments of the edifice as shall give pleasure to the eye and inspire respect for the place and the gems of thought which it enshrines. Some have entertained the hope that ere the want becomes fully determined, some public-spirited citizen, moved by gratitude for success attained in our city, may give it fit and worthy expression and secure for himself an enduring monument by the gift of a library building. But this hope failing, it should be borne in mind that it will soon devolve upon the City to supply the need.

The present minute classification of the books in the Library invites endowment from persons interested in any special branch of learning, for the purpose of adding books relating to that particular department. Thus a person interested in art might give the Library, say, one thousand dollars—the income to be applied to buy the best books that appear on the subject each year. The Library could agree to call its entire department of art literature by the donor's name, and put into it all it now has on that subject. The name of the donor would appear on each book-plate and in the classed catalogue, and for generations to come every one interested in the subject would be grateful to the per-

son making such endowment. Every class of books in the Library, with numerous sub-divisions, presents this opportunity to the liberal-minded, and the scheme is respectfully submitted to the thoughtful consideration of all such as may desire to advance the cause of learning among us.

The total circulation was 467 less than last year, but as the library was open two days less this year than last, this difference is easily accounted for. There has been a gratifying improvement in the character of the books read, the percentage of works other than fiction having increased from four per cent. in 1884 to a fraction over thirteen per cent. the present year. The change in this direction promises to be even greater in the future.

A conservative spirit has prevailed in the selection of new books. While recognizing that the propriety of supplying books which will afford mental recreation and entertainment becomes almost a necessity in a workaday community like ours, the Directors have endeavored to make choice of the best books in this class of literature and, except in the case of new productions by authors of approved standing, have preferred to await the judgment of good authorities before adding books of this description to the Library. On the other hand, no pains has been spared to procure everything of value that their means would admit, in the different departments of science, art, history, theology, biography and general literature. A prominent librarian has well said that "the study of such books puts money directly into the student's pocket, promotes his success in life, and the pros-

perity of the city. A good and active public library raises the value of every piece of real estate in the city, by thus making the city more profitable (in dollars) to live in; because it enables the intelligent and studious to earn more."

The Directors feel that the best interests of the Library cannot be properly promoted nor the institution developed towards the high plane now occupied by the best public libraries, while the Librarian's tenure of office is subject to the fluctuations of politics. To the end, therefore, that the Library may be raised to the highest point of efficiency and usefulness, they earnestly hope that the City Council will take such action in the near future as will place the position of Librarian beyond the danger of change by reason of political influence.

The present Librarian, with his literary tastes and rare qualifications for the position, and the able corps of assistants have proved to be in every respect faithful and competent.

Thanks are due to all who have favored the Library with gifts of books during the year, and especially to the proprietors of the local newspapers for complete files of their issues. These have been carefully preserved and bound, and as time goes on will become of great value. It is very desirable that those connected officially with our local institutions, of whatever character, should contribute to the Library copies of everything published by their organizations, even programmes of entertainments and of religious or secular exercises, to

be kept for future reference. A list of donors, with the number of volumes contributed by each is appended to this Report.

Lowell, Dec. 21, 1885.

EDWARD J. NOYES,
ALFRED M. CHADWICK,
FREDERICK TAYLOR,
WILLIAM J. COUGHLIN,
LAWRENCE CUMMINGS,
WILLIAM P. BARRY,
HARRY DUNLAP,
WILLIAM G. WARD.

LIST OF DONORS.

	Vols.	Pams.
American Unitarian Association.....		12
J. C. Ayer Company.....	1	
Hon. H. W. Blair.....		4
City of Boston.....	1	1
Boston Public Library.....		3
Boston University.....		1
Bridgeport Public Library.....		1
Brooklyn Public Library.....		2
Charles H. Burbank.....	2	1
Cambridge Public Library.....		1
Cincinnati Board of Education.....	1	1
Cincinnati Public Library	1	
Clarke Institution for Deaf Mutes.....		1
E. R. Cogswell.....	1	
Joseph G. Dalton.....	1	
Miss E. M. Edson.....		2
Fall River Public Library.....		1
<i>Carried forward</i>	8	31

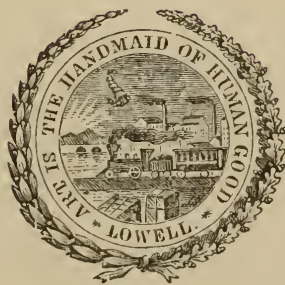
LIST OF DONORS.—Continued.

	Vols.	Pams.
<i>Brought forward</i>	8	31
James K. Fellows.....	1	
Samuel A. Green.....	2	
Iowa State Library.....		1
Lawrence Public Library.....	1	1
Dr. Samuel Lawrence.....		1
Josiah W. Leeds.....	1	
Lowell Old Residents' Historical Society.....		1
Lynn Public Library.....		1
Manchester Public Library.....		1
Mercantile Library, New York.....		2
Middlesex Mechanics' Association.....		1
Milwaukee Public Library.....		1
New Jersey State Library.....	1	
Newton Public Library.....		1
Hon. Henry B. Peirce.....	8	1
Dr. George E. Pinkham.....		3
Providence Public Library.....		1
Royal Society of Canada.....	1	
James S. Russell.....	1	
Hon. William A. Russell.....	23	
<i>Carried forward</i>	47	47

LIST OF DONORS.—Continued.

	Vols.	Pams.
<i>Brought forward</i>	47	47
St. Louis Public Library.....		1
William Sims, Topeka, Ks.....	1	
Smithsonian Institute.....	1	
Springfield Public Library.....		1
Hon. Charles A. Stott.....	1	
Taunton Public Library.....		1
J. C. Thorne.....		1
J. B. Trueworthy.....		7
Tufts College.....		12
U. S. Bureau of Education.....		6
U. S. Chief of Ordnance.....	3	
U. S. Department of Interior.....	25	
U. S. Patent Office, Official Gazette.....		54
U. S. War Department.....		5
Worcester Public Library.....	1	2
Woburn Public Library.....		1
Mrs. E. G. White.....	1	
Carroll D. Wright.....	1	
Total Number.....	81	138

ANNUAL REPORT
OF THE
BOARD OF HEALTH
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Feb. 16, 1886.

Read and ordered on file.

SAMUEL M. CHASE,
City Clerk.

IN COMMON COUNCIL, Feb. 23, 1886.

Received and read.

DAVID CHASE,
Clerk.

REPORT.

OFFICE OF THE BOARD OF HEALTH, }
LOWELL, MASS. }

To the City Council:

In accordance with the requirements of the General Statutes, we herewith submit our eighth annual report of the Board of Health of the City of Lowell, for the year ending Dec. 31, 1885.

In doing so, permit us to congratulate the citizens of Lowell upon the remarkable healthfulness of our city. The year has been marked by no incident of special moment as regards the public health. The total number of deaths reported at the City Clerk's Office for the year, was 1329, a decrease of 73 deaths from the number reported the year before. Estimating the city's population at the same figures as the census taken this year, 64,051, the annual death rate is 20.73 to each 1000 of the population.

The reported prevalence of cholera in Europe, and its anticipated arrival in this country during the summer, gave the Board of Health much anxiety early in the season.

Our first great care was to place the city in a good sanitary condition. In this we have been fairly successful; the sanitary condition of the City is better to-day than at any previous time. The thorough inspection of all tenement houses, cellars, and back yards, was commenced in April, and continued through the warm season.

The Board gave notice that during the months of April and May, all filth and rubbish from cellars and back yards, would be removed by the Health Department, if deposited in the gutter in front of the premises. Many landlords and tenants improved this opportunity and gave their premises a complete cleaning up. Nearly three hundred loads were removed during the two months. All back alleys and passage ways were thoroughly cleaned each week.

The work of disinfection was commenced and continued through the warm season. A very large number of alleys, passageways, privy vaults, cellars, gutters, and filthy sheds, were disinfected many times.

ASHES AND HOUSE DIRT.

The removal of ashes and house dirt has been for many years done at the expense of the City; at first under the direction of the Superintendent of Streets, but of late by the Health Department.

The following regulation of the Board relative to the matter is now in force.

Regulation 8. Ashes and house dirt kept for removal by the Health Department shall not be mixed with swill, mortar, brick or stone, and shall be kept in suitable vessels, which shall be placed upon the outside edge of the sidewalk upon such days as the team shall collect from each ward. This is done at the City's expense as a sanitary measure. There have been removed during the year 16,010 loads. In addition to this there have been 617 loads removed from back alleys.

There are employed in removing house dirt and ashes four teams and nine men.

The cost of labor for doing this work for the year ending Dec. 31, 1885, \$6,497,10.

VACCINATION.

It has become the settled conviction and belief of all eminent physicians in the civilized countries of the world that vaccinations is a protection against small pox and a large number believe with the world renowned "Jenner" that it will protect the constitution from subsequent attacks of small pox as much as the disease itself. The reports of the alarming epidemic of small pox prevailing in Montreal, together with the fact that there is probably no city in New England more intimately connected with that city by direct personal intercourse than our own, led the Board to feel the importance of protecting our citizens against the encroachment of the disease, by vaccination.

On the first of September, notice was given that the office of the Board of Health would be open two hours each day for free vaccination, but as the danger increased and report of cases of small pox from the towns and cities in this vicinity came in, it was found impossible to vaccinate all who applied, although two physicians were constantly employed during the two hours. It was deemed advisable to open the office from 9 a. m. to 5 p. m., when for several days from 500 to 700 persons availed themselves of the opportunity, requiring the services of three physicians.

An office was opened in "Little Canada" one hour daily for ten days requiring the services of two physicians, until it is believed that all the French Canadians in that vicinity have been vaccinated, as an inspector was employed to make from house-to-house examinations and compel all unvaccinated persons to present themselves for vaccination.

The Board of Health made the following regulation which is now in force :

OFFICE BOARD OF HEALTH,

LOWELL, Sept. 4, 1885.

The Board of Health of the City of Lowell, hereby make and publish as required by the General Statutes, the following regulation for the public health and safety against small pox.

No teacher in any public, parochial, or private school in the City of Lowell shall admit to such school any child without a physician's certificate of vaccination or other satisfactory evidence of security against small pox.

This makes the teacher liable to the penalties provided by

General Statutes if unvaccinated children are admitted to the schools.

SMALL POX.

The success which has attended our efforts in preventing this disease from obtaining foothold in the City is a matter of sincere congratulation when it is remembered that we were daily exposed to contagion from persons coming from Montreal. With this constant influx there have occurred only four cases.

The first case reported to the Board, September 24th, was that of a four year old child of Alfred Dubreil, the family arriving in the City from Montreal ten days before and living in a tenement on Merrimack street. This child, with its mother and sister ten years of age, were immediately removed to the Small Pox Hospital and the tenement thoroughly fumigated.

October 1, the sister was taken sick with the disease and had a severe run but recovered and the family was discharged from the Hospital. On October 28, David Hamlin a man about 30 years of age who had left Montreal eight days before was reported ill of small pox at 170 Middlesex street, which upon investigation proved true. He was promptly removed to the Hospital. The Board felt some alarm for fear of the spread of the disease from this case, as it occurred in a large boarding house of French Canadiens where there were several unvaccinated persons in the family. The family and boarders were all vaccinated and the house

most thoroughly fumigated. The patient recovered and there was no other cases arising from it.

November 4, Almira Turcotte, aged 15, was reported sick with small pox at No. 140 Middlesex street and was removed to the Hospital the same day. The girl came to Lowell with her father's family consisting of 7 persons from a small town in Canada, about 40 miles below Montreal, where there had been no cases of small pox reported. The infection in this case evidently came from infected cars or from persons traveling who were afflicted with the disease, as the family left Canada 14 days before the girl was reported sick. This case was one of the worst cases of confluent small pox ever admitted to the Hospital, that recovered. For several days she could only be cared for by being wrapped in a sheet salurated with cosmoline. Great credit is due Mrs. Melissa J. Reed, an experienced small pox nurse who had charge of the Hospital during the season, for her faithfulness and great vigilance in the care of the patients under her care, all of whom recovered.

SCHEDULE OF CITY PROPERTY

IN THE CARE OF THE BOARD OF HEALTH.

7 Horses.....	\$1,195 00
9 Single Harnesses	300 00
4 Swill Wagons.....	350 00
8 Horse Covers... ..	40 00
9 Halters	9 00
8 Surcingles	8 00
8 Blankets.....	40 00
11 Shovels.....	11 00
8 Ice Cutters.....	8 00
6 Swill Barrels.....	12 00
2 Stoves.....	30 00
1 Copper Tank.....	6 00
10 Pails	10 00
1 Swill House.....	150 00
Stable and Shed.....	1,100 00
3 Swill Boxes.....	60 00
4 Stake Chains.....	1 50
5 Single Carts.....	390 00
1 Saw	1 00
1 Hammer	1 00
2 Swill Dippers.....	2 00
8 Curry Combs and Brushes.....	10 00
2 Desks.....	60 00
1 Hospital Wagon.....	20 00
Hospital Building and furniture.....	500 00
3 Hoes	3 00
Books.....	11 50
1 Book Case.....	25 00
1 Chest of Drawers.....	7 00
Chairs.....	4 00
1 Ice Tank.....	3 00
Bed and Bedding.....	18 00
	<hr/>
	\$4,386,00

FINANCIAL STATEMENT.

Board of Health, (salaries).....	\$ 1,000 00
Pay Roll.....	10,847 90
City Water Tax.....	72 00
Stationary and Books.....	14 10
Lowell Gas Light Co.....	24 88
Office Rent.....	113 94
Lumber.....	47 27
Hay, Grain and Feed.....	1,586 97
Hardware.....	28 16
Paints, Oil, Glass, and Brooms.....	68 97
Fuel....	36 18
Printing and Advertising.....	114 42
Pails, Tinware, etc.	61 53
Veterinary Surgeon Linment Etc.....	65 25
Free Vaccination.....	875 05
Small Pox Hospital Expenses.....	728 49
Horses, Wagon, Sled and Harnesses.....	645 00
Swill Boxes, Repairing Carts, Harnesses etc.	483 62
Piping and Plumbing.....	49 42
Teaming and use of Horses.....	123 60
Police Department.....	47 00
Incidentals.....	5 13
	<hr/>
	\$17,039 88

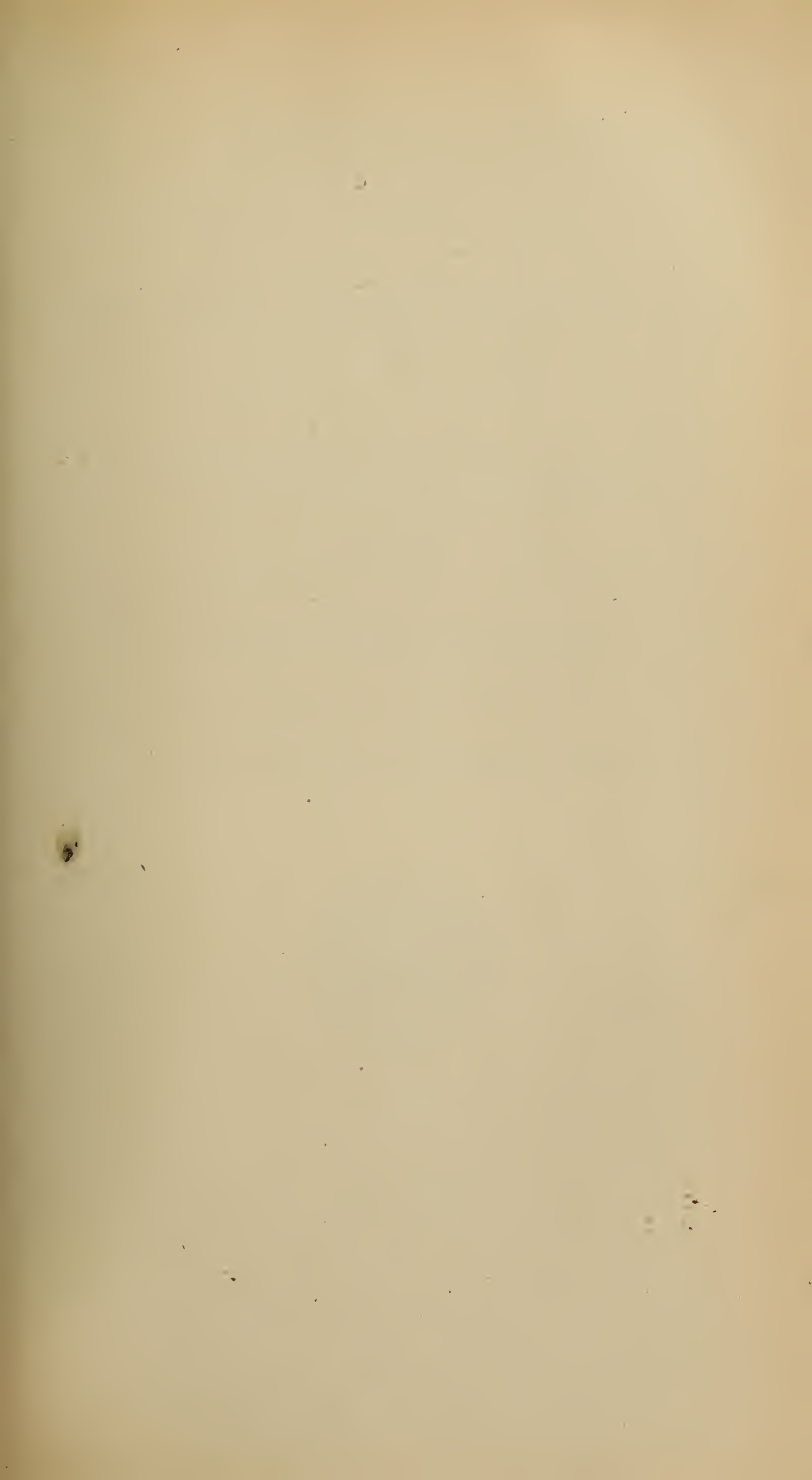
Amount Appropriated.....	\$10,000 00
Received from Sale of Swill, etc.....	3,711 38
Transferred from Reserved Fund.....	3,328 50
	<hr/>
	\$17,039 88

Respectfully Submitted,

J. W. B. SHAW,

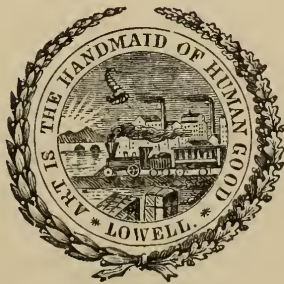
JAS. J. McCARTY, M. D.

JOHN J. COLTON, M. D.





ANNUAL REPORT
OF THE
CITY PHYSICIAN
AND
SUPERINTENDENT OF BURIALS
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN COMMON COUNCIL, Feb. 23, 1886.

Read and sent up to the Board of Aldermen.

DAVID CHASE,

Clerk.

IN BOARD OF ALDERMEN, Feb. 26, 1886.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

REPORT.

OFFICE OF
CITY PHYSICIAN AND SUPERINTENDENT OF BURIALS.

TO THE CITY COUNCIL :

Gentlemen :— In accordance with the Ordinance regulating the duties of City Physician and Superintendent of Burials, I beg leave to present the following Report :—

The mortality of the city for the year 1885, ending December 31, was 1329, a decrease of 72 as compared with the year 1884. This gives a death rate of 20.60 per 1000, taking the last census as a basis of population, 64,051.

Comparing the death-rate of Lowell with that of Lawrence, the character of whose population is about the same, we find it to be a fraction less, while as compared with Worcester, whose population numbers less foreign-born, and which does not contain so large a proportion of indigent persons, our death rate stands higher. Fall River has a larger death rate, while Springfield's death-rate is only 15.65 per 1000.

The fact that a large number of mothers who have babies cared for by others while they work in the mills,

is a fruitful cause of death among the infants. There is no equivalent for a mother's care.

Another cause, and an alarming one, is the abuse of intoxicating liquors. It is a fact which cannot be reiterated too often, that a large proportion of the crime, poverty, suffering, sickness and death, is directly traceable to rum drinking. In nearly every instance where the City Physician has been called to attend patients at the Police station, suffering from injury or accident, rum has directly or indirectly been found to be the cause of the trouble.

A large proportion, also, of those sent to the City Farm for infraction of the laws, would not have been guilty of violating the law had they not been under the influence of liquor. A large proportion of those, also who have been sent there on account of bodily injuries, have received these injuries either while under the influence of liquor or as a result of dram drinking.

Poverty, also, which sends many there is often also the result of the same cause. It is to be hoped that the moral sentiment of the community, appreciating the terribly disastrous results, will soon assert itself in such a way, and with such force as to diminish if not eradicate this terrible evil. Terrible in its effects on the individual, on the family, the City and the State. Signs point in that direction today, but as yet the movement is phenomenally slow; may it prove to be phenomenally sure.

In any municipality of several thousand inhabitants, the mortality rate will depend upon two principal

causes, viz: 1. The Sanitary conditions of the locality, and 2, the character of the inhabitants as regards intelligence and general habits. It is an acknowledged fact that good sanitary conditions, cleanly streets and alleys, clean cellars and out houses, absence of all decaying vegetable and animal substances, good ventilation and efficient sewerage and drainage all conduce to good health, and tend to ward off disease and to diminish the death rate.

Given all these good conditions, and still by over feeding or lack of food, or improper food, or irregularity of meals or intemperance in the use of drinks, alcoholic or otherwise; or exposure, or over exertion we shall find a large death rate. The people should be made to understand that however much the city authorities may do to prevent the spread of disease still a great responsibility rests at the door of each individual.

Every citizen owes it to himself, as well as to the city in which he lives, to become thoroughly informed in regard to the best means to be employed to insure freedom from disease, for it goes without saying, that a very large proportion of sickness and suffering results from carelessness or want of knowledge of the proper conditions requisite to perfect health.

EPIDEMIC DISEASE.

The history of the entry and exit of small pox into the city has already been alluded to in the report of the Board of Health.

The fact that in every town or city in the State

where small pox has made his appearance it has been at once squelched by the means of isolation and vaccination, show most conclusively that if properly handled small pox need not become epidemic.

The general intelligence of our citizens, and their willingness to report cases of small pox as soon as discovered, or suspected, has enabled the Board to do what would have otherwise been impossible.

POLICE STATION.

The fact, that any citizen of Lowell, who is so unfortunate as to fall into a state of insensibility upon the street, and not be recognized, has to be taken to the Police Station, as the only place outside the farm over which the City has control, is a great discredit to the City.

If any one will take the trouble to examine the premises and see what conveniences are found for the care of a person bleeding from wounds, or dying from any sudden stroke, as apoplexy, heart disease or accident, he will say without hesitation, "this is a disgrace to the City." This condition of things should be at once remedied.

Action, looking to a remedy in the future, has already been taken by some of our leading philanthropists. It is hoped that in the near future there may be erected a City Hospital such as are found in many of our leading cities.

THE CITY FARM.

The City Farm has, of late years, become a hospital for the sick, insane and disabled.

A persons without means of support falls and fractures a limb, or is otherwise injured, and he is taken to the Police Station, and from thence to the City Farm.

Consequently the number of deaths at the Farm will depend very much upon the number of accidents among the poorer classes in the City. So, also, the same class of people, young or old, may be suffering with some incurable disease and are unable to provide for themselves, and have no friends who are able or willing to care for them, and they are taken to the Farm. They may live for a few days, weeks or months, but are pretty sure to die there. It can thus be readily seen that the mortality at the Farm does not depend so much upon the care they receive there, as upon the condition of the patients when taken there, or the number of accidents which befall this class in the City.

The number of deaths at the City Farm for the year has been 54, or five more than for the year 1884.

Twenty were over sixty years of age, ten over seventy years, and twelve under five.

Of the twelve, several were in a dying condition when they were taken there, and the others were born of diseased parents. These last struggled for existence for a few days, or weeks, or months and finally succumbed to the inevitable.

That the inmates receive proper care and good nourishing food is shown in the fact that of more than one hundred children, boys and girls, of school age, not one death has occurred during the year, neither has there been a severe case of sickness.

One boy, eight years of age, brought in with scarlet fever, died subsequently, of Brights disease. The following are the diseases causing death at the Farm for the year together with the number of deaths from each cause :

Apoplexy	3	Gun Shot Wound.....	1
Cholera Infantum.....	3	Infantile.....	1
Consumptions.....	10	Inanition	4
Convulsions	1	Old Age.....	3
Croup.....	2	Paralysis.....	9
Debility.....	7	Premature Birth.....	2
Dropsy	3	Rheumatism.....	1
Exposure.....	1	Ulcer of Leg.....	1
Gastritis.....	1		

Considering the condition of those who have died, when they entered the institution it is only strange they lived as long as they did. I have no doubt that quite a number of inmates at present sick with consumption and other incurable diseases, would have their lives materially shortened if they should be subjected to the same conditions that prevailed previous to their entrance. And this fact is a sufficient proof of the good treatment and care which the poor of the City receive at the City's hands.

MORTALITY FOR THE YEAR ENDING DEC. 31, 1885.

Abscess.....	4	Diphtheria.....	31
Accident.....	22	Disease of Brain.....	45
Addison's Disease.....	1	Disease of Heart.....	51
Anæmia.....	13	Disease of Kidney.....	12
Angina Memb.....	3	Disease of Liver.....	18
Apoplexy.....	33	Disease of Spine.....	6
Ascites.....	1	Disease of Stomach.....	4
Asthenia.....	4	Dropsy.....	16
Asthma.....	2	Drowned.....	12
Bronchitis.....	26	Dysentery.....	6
Bright's Disease.....	12	Emphysemia.....	3
Burns.....	4	Eclamsia.....	1
Cancer.....	26	Enteritis.....	10
Cancrum Oris.....	1	Enuresis.....	1
Cholera Infantum.....	124	Epilepsy.....	4
Chorea.....	2	Erysipelas.....	6
Congestion of Lungs.....	4	Exposure.....	1
Consumption.....	196	Fibrous Tumor.....	2
Convulsions.....	28	Gastritis.....	8
Croup.....	42	Gangrene.....	2
Cystitis.....	2	Goitre.....	1
Debility.....	26	Hemorrhage.....	7
Diabetes.....	1	Hernia.....	2
Diarrhœa.....	10	Hæmoptysis.....	2

Hydrocephalus.....	14	Pneumonia.....	82
Hydrothorax.....	1	Premature Birth.....	12
Inanition.....	14	Puerperal.....	4
Infantile.....	45	Rheumatism.....	3
Inflammation of Bowels...	11	Scarlatina.....	16
Influenza.....	2	Scrofula.....	4
Laryngitis.....	2	Septicæmia.....	3
Lead Poisoning.....	1	Sphacelus.....	1
Leucocythæmia.....	1	Suicide.....	6
Malignant Pustule.....	1	Tabes Mesenterica.....	4
Marasmus.....	28	Teething.....	6
Measles.....	7	Tetanus.....	1
Meningitis.....	31	Thrombus.....	1
Myelitis.....	5	Tonsilitis.....	1
Nephritis.....	5	Tuberculosis.....	4
Nervous Exhaustion.....	1	Typhoid Fever.....	45
Old Age.....	70	Ulcer.....	1
Paralysis.....	22	Unknown.....	2
Parturition.....	2	Uræmia.....	7
Peritonitis.....	12	Whooping Cough.....	2
Periostitis.....	1	Wounds.....	2
Pleurisy.....	3		

TABULAR STATEMENTS.

DEATHS IN EACH MONTH FOR THE LAST TEN YEARS.

MONTHS.	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	Total.
January.....	80	120	64	105	107	84	115	113	124	103	1015
February.....	57	88	78	69	93	103	82	91	108	121	890
March.....	81	97	104	78	125	109	91	102	141	107	1035
April.....	75	84	84	83	103	111	105	122	110	114	991
May....	69	77	82	73	90	101	112	100	98	99	901
June.....	69	63	78	70	103	86	99	118	87	105	878
July.....	160	87	132	108	135	144	137	156	143	134	1336
August.....	137	112	127	97	146	146	137	139	136	137	1314
September...	128	81	121	75	184	102	127	152	131	106	1207
October.....	119	86	78	92	97	103	118	102	107	99	1001
November...	91	64	58	74	89	93	81	105	106	107	898
December....	83	68	82	82	90	105	113	120	110	97	950

SHOWING THE NUMBER OF DEATHS FROM SOME OF THE MOST PREVALENT DISEASES IN THE LAST TEN YEARS.

DISEASES.	1876	1877	1878	1879	1880	1881	1882	1883	1884	1885	Total.
Cholera Inf.	119	63	96	86	127	111	135	127	132	124	1120
Consumption.	188	176	191	193	233	235	211	255	204	196	2082
Croup.....	63	42	28	26	33	44	23	33	32	43	367
Dis. of Heart	40	40	45	45	60	62	73	80	93	70	608
Diphtheria...	158	142	62	21	22	27	18	8	23	31	512
Infl'e Debil'y	46	58	67	31	86	69	56	58	58	45	574
Marasmus....	22	16	21	24	36	34	31	37	30	28	279
Pneumonia ..	47	40	53	80	119	83	74	88	101	82	767
Scarlet Fever	5	3	2	12	17	9	9	25	19	16	117
Typhoid Fev.	20	22	24	22	23	53	52	47	40	45	347

DEATHS IN LOWELL SINCE ITS INCORPORATION.

1827..... 50	1847.....948	1867..... 640
1828..... 36	1848.....825	1868..... 875
1829..... 66	1849.....903	1869..... 763
1830.....104	1850.....492	1870..... 952
1831.....117	1851.....629	1871.....1033
1832.....178	1852.....604	1872.....1048
1833.....211	1853.....734	1773.....1161
1834.....221	1854.....834	1874.....1184
1835.....229	1855.....766	1875.....1020
1836.....253	1856.....790	1876.....1147
1837.....301	1857.....818	1877.....1027
1838.....470	1858.....626	1878.....1080
1839.....340	1859.....736	1878.....1006
1840.....407	1860.....720	1880.....1312
1841.....434	1861.....713	1881.....1287
1842.....473	1862.....641	1882.....1319
1843.....364	1863.....695	1883.....1437
1844.....362	1864.....633	1884.....1401
1845.....363	1865.....575	1835.....1328
1846.....690	1866.....749	

ANNUAL REPORT
OF
BIRTHS, MARRIAGES AND DEATHS
IN THE
CITY OF LOWELL, MASS.,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

IN COMMON COUNCIL, March 23, 1886.

Read and sent to the Board of Aldermen.

DAVID CHASE,

Clerk.

IN BOARD OF ALDERMEN, March 30, 1886.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

REPORT.

CITY CLERK'S OFFICE,
LOWELL, MASS., March 16, 1886.

TO THE CITY COUNCIL OF THE CITY OF LOWELL :

Gentlemen,—In accordance with a custom which has prevailed for a series of years, but which does not seem to be founded on a city ordinance or a statute law, I submit from the records in this office an abstract of the Births, Marriages and Deaths for the year 1885. Though not legally demanded, nor perhaps of general interest to the masses, the figures given in these reports from year to year have been closely scanned by numerous persons interested in vital statistics, and it is therefore to be regretted that the returns made, more especially concerning births, are not more complete and accurate. For instance: In the returns of births for 1884 there were twenty-eight which should have been credited to previous years, and in the returns for 1885 the number belonging to previous years was seventeen. Also, while the returns purport to give the number of children born in Lowell, it is shown in the returns for 1885 that fifty-

five of the whole number returned were born elsewhere. Of this number fifteen were born in Canada and thirty-five in the following cities and towns: Boston, Cambridge, Chelmsford, Concord, N. H., Dorchester, Dracut, Fall River, Guildhall, Vt., Haverhill, Lawrence, Leeds, Me., Lewiston, Me., Manchester, N. H., Martha's Vineyard, Nashua, N. H., North Woburn, Pelham, N. H., Philadelphia, Pa., Phillips, Me., Providence, R. I., Tewksbury, Tyngsborough, West Warren, Wilmington, Winchester and Worcester, while the birth-places of five are vaguely given as New York, New Hampshire, and Maine, and in two instances no attempt is made to locate the birth of the children.

BIRTHS.

The whole number of children born alive and on record at this office for the year 1885 and including the fifty-five before mentioned as having been born elsewhere, was 1769--being 17 less than for the preceding year. Arranged by wards they are as follows:

	Males.	Females.	Sex not reported.	Total.
Ward One	157	161		318
" Two	119	109		228
" Three	204	174		378
" Four	121	129	1	251
" Five	191	184	1	376
" Six	115	103		218

Four of the number were illegitimate and there were thirteen pairs of twins.

MARRIAGES.

The total number of marriage intentions recorded for the year 1885, was 705—less by 80 than for the year preceding. The number of marriages in Lowell for the year 1885 was 667. The number married elsewhere but returned to this office, one or both the parties residing in Lowell, was 40, making the total number recorded 707. One of this number was a marriage solemnized in 1884 which a tardy clergyman failed to return until more than a year had elapsed. The number of marriages recorded was less by 67 than for the year 1884.

DEATHS.

The total number of deaths recorded for the year 1885 is 1328—less by 73 than for the preceding year. Complete details as to the cause of death and other facts concerning the mortuary record being embraced in the annual report of the City Physician and Superintendent of Burials, it is deemed unnecessary to enlarge upon the brief statement above given. Appended, however, is a table giving the number of births and marriages recorded in Lowell from 1843 to 1885 inclusive, with an estimate for the years previous to the year first mentioned, from the incorporation of Lowell as a town in 1826. Also the number of deaths recorded from 1826 to 1885 inclusive.

Copies of the record of births, marriages and deaths

for the year 1885 have been sent to the Secretary of the Commonwealth as required by law.

Respectfully submitted,

SAMUEL M. CHASE,

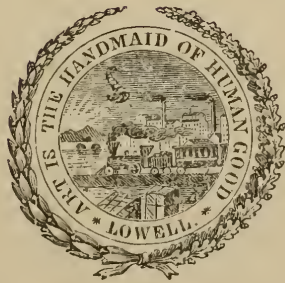
City Clerk.

TABLE

Giving the Population, and Number of Births, Marriages and Deaths Recorded in Lowell since its Incorporation.

YEAR.	Population.	Births.	Marriages.	Deaths.
1826-1843.....	.....	est.5,010	est.4,500	4,186
1844.....	25,163	662	319	362
1845.....	.....	660	399	363
1846.....	29,127	772	591	690
1847.....	.....	719	659	949
1848.....	.....	796	516	825
1849.....	.....	672	320	903
1850.....	33,383	966	674	492
1851.....	.....	1,018	669	629
1852.....	.....	1,007	669	604
1853.....	.....	1,093	742	734
1854.....	.....	1,092	808	834
1855.....	37,554	1,039	687	766
1856.....	.....	1,034	632	790
1857.....	.....	1,051	585	818
1858.....	.....	827	467	626
1859.....	.....	983	496	739
1860.....	36,827	1,077	497	720
1861.....	.....	949	459	713
1862.....	.....	763	368	641
1863.....	.....	657	302	695
1864.....	.....	658	335	633
1865.....	30,990	672	406	575
1866.....	36,878	813	625	749
1867.....	.....	826	596	640
1868.....	.....	860	495	857
1869.....	.....	858	575	763
1870.....	40,928	926	515	952
1871.....	.....	886	647	1,033
1872.....	.....	1,099	670	1,048
1873.....	.....	1,365	705	1,161
1874.....	.....	1,356	580	1,184
1875.....	49,688	1,296	513	1,020
1876.....	.....	1,264	514	1,147
1877.....	.....	1,341	552	1,029
1878.....	.....	1,332	546	1,088
1879.....	.....	1,412	635	1,006
1880.....	59,485	1,770	744	1,312
1881.....	.....	1,840	786	1,287
1882.....	.....	1,755	813	1,322
1883.....	.....	1,681	848	1,432
1884.....	.....	1,786	735	1,401
1885.....	64,051	1,769	707	1,328
Total.		50,412	28,901	41,046

ANNUAL REPORT
OF THE
CHIEF ENGINEER
OF THE
FIRE DEPARTMENT,
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Apr. 6, 1886.

Read and ordered on file. Sent down for concurrence.

GUY MOREY,
Assistant City Clerk.

IN COMMON COUNCIL, Apr. 6, 1886.

Received, read and ordered on file in concurrence.

DAVID CHASE,
Clerk.

REPORT.

CHIEF'S OFFICE, ENGINE HOUSE, MIDDLE ST.,
LOWELL, April 1, 1886.

TO THE HONORABLE MAYOR AND BOARD OF ALDERMEN :

Gentlemen,—In accordance with the requirements of the ordinance governing the Fire Department, it becomes my duty, as Chief Engineer, to present to you the annual report of the Fire Department of Lowell for the year ending, March 31, 1886.

The report will be found to contain statements in detail, embracing the amount of expenditures, a register of the department, with number of badge, age, residence and occupation of each member; a record of all fires and alarms which have occurred during the year and the causes thereof, with the names of the owners or occupants, the loss and insurance as near as could be ascertained; with the number and location of fire alarm boxes, hydrants and reservoirs, with an inventory of all property belonging to the department in charge of the several companies, and such other information as is thought proper for your consideration.

The amount received from appropriations and other

sources was \$69,629.76. The expenses of the Department have been \$69,629.76.

The following statement will show the receipts and expenditures.

RECEIPTS.

Balance undrawn January 1, 1885.....	\$ 3,816 96.	
Appropriation	63,000 00	
Received from other sources.....	2,812 80	
		<u>\$69,629 76</u>

EXPENDITURES.

Water rates for hydrants.....	\$15,321 00	
Pay Roll.....	37,133 14	
Alterations and repairs on buildings.....	3,448 09	
Alterations and repairs on fire-alarms.....	1,150 44	
Repairs on steamers, hose carriages, etc....	742 73	
Exchange of horses.....	1,175 00	
Boilers for heating buildings.....	500 00	
Hay, grain and straw.....	3,159 66	
Harness and repairs.....	389 93	
Veterinary services and medicine.....	121 00	
Chemical Engine.....	2,500 00	
Horse shoeing and repairs of wagons.....	395 60	
Rent.....	240 00	
Coal.....	1,400 91	
Gas.....	459 01	
Telephone and rental of instruments.....	357 83	
Laundry.....	54 92	
Beds, bedding and furniture.....	431 15	
Oil, sponges, brooms, dusters, soap, etc....	568 43	
Incidentals.....	80 92	
		<u>\$69,629 76</u>

FORCE.

The department consists of a Chief and four Assistant Engineers, one Fire Alarm Telegraph Operator; three Steam Fire Engine Companies, one of twelve and the other two of eleven men; four horse Hose Companies of nine men; two hand Hose Companies of ten men; two Hook and Ladder Companies, one of ten and the other of fifteen men; one Protective Company of seven men; and one Chemical Engine Company of four men; making a total of one hundred and thirty-two men; of which thirty-one are permanent and devote their whole time to the interest of the City; the remaining one hundred and one men are subject to call only during an alarm of fire; during the past year the efficiency of the Department has been increased by the addition of six men to the permanent force; one as assistant on the Fire Alarm, one as fireman on Steamer No. 2, and the other four on the Chemical Engine. In addition to the duties pertaining to his office, the Chief has charge of all street lights.

APPARATUS.

The apparatus of the department is kept in the best possibly condition, and comprises four Steam Fire-Engines; seven four-wheeled two-horse Hose Carriages; two Hook and Ladder Trucks; one Chemical Engine, and one Protective Wagon fully equipped; eight Hose Pungs on runners; Horse, Harness, Wagon and Sleigh for the use of the Chief; two traverse-runner Sleighs;

one traverse-runner Sled; seven exercise or fuel wagons and two Fire Alarm Wagons. In addition to the above we have a four-wheeled Horse Hose Carriage loaded with Hose and kept in No. 5's house; a two-wheeled Horse Hose Carriage kept in No. 7's house; three four-wheeled Hand Hose Carriages with five hundred feet of Hose on reel, one stationed in Pawtucketville, one at Ayer's City, the other at the City Poor Farm. During the year the following new apparatus was purchased: One Chemical Engine of the Perkin's pattern, of the Chicago Extinguisher Company, and located at the corner of Merrimack and Race Streets.

FIRE ALARM TELEGRAPH.

This important branch of the service has been ably performed by the operator George B. Whitney; the work of this branch is continuous and exacting, and great care has to be exercised to protect the wires from interference with the telephone and other wires; but the lines have been kept in perfect working order during the year; there are some three miles of old wire yet to be renewed. Connected with the service there are eight bell strikers, eleven Engine House Gongs, eight Engineers Gongs, eight small Gongs, eleven Electrical arrangements for opening small doors, etc., eleven Registers, sixty one Signal Boxes, one six circuit non-interfering Repeater, one cut-out and testing Switch Board, eight Galvanometers, three hundred and twenty Cups of Battery, fifty five miles of wire

and four hundred and twenty two poles. As the City increases in density and population and its limits are extended, additional protection of this nature is demanded; and I would respectfully recommend that the old six circuit repeater be exchanged for a ten circuit repeater; the circuits are too long for safety, as the disabling of one of them exposes large interests much longer than is necessary, and also recommend the erection of the last twelve signal boxes the present year; we have had some trouble by Telephone wires coming in contact with Electric light wires, making a cross or connection with the Fire alarm wires, and in one instance nearly destroying the repeater; but in November the Committee purchased of the National Protective Company of New York, enough protectors to protect the repeater and the Engine House Bells, etc., from trouble with the electric light; it is a small instrument that carries off all the extra current and I would recommend the purchase of enough more to protect all the boxes as the expense is slight compared with the damage that is liable to be done without them.

TELEPHONE.

The telephones are a great benefit to the department and to the Citizens who have notified the department of many fires the past year; there are connected with the system fifteen complete stations, thirteen extension bells, about eleven miles wire, constructed, owned and maintained by the City, except the hand

telephones and transmitters, which are rented from the telephone company.

HORSES AND HARNESES.

The number of horses belonging to the Department is twenty seven and are with one or two exceptions in good condition; four (4) have been procured by change during the year. There are twelve pairs of double and 4 single harnesses, of which eleven (11) pairs of the double are the Berry patent swinging harnesses.

HOSE.

There is in the Department at the present time 7,500 feet of cotton, rubber lined, 1,600 feet rubber, and 4,800 of leather hose. I would recommend the purchase of 1,000 feet more the present year as a portion of the hose now in service is old and will not stand the pressure required at times.

HYDRANTS.

During the year eight new Post hydrants have been added and the 3 Flush discontinued, making a total number of hydrants seven hundred and fifty-seven for which, this department was charged annually twenty dollars each; the Post hydrants added are located on Methuen, Humphry, Sutherland, Ludlam, Boynton, Third Avenue, East Merrimack and May Streets, one each; three old style Post hydrants on Bridge and two on French Street have been removed and new

post hydrants set in their places; one old flush hydrant on Middle Street, one in City Hall Avenue, and one on Prince Street has been discontinued. The amount paid by this department for water last year was \$15,321.00, but this year for the first time the amount is raised by a special appropriation.

PROTECTIVE DEPARTMENT.

This organization which is supported by the City, continues to demonstrate its usefulness in the saving of property from damage by water, and consists of one Company of seven men, four of which are permanent; one wagon drawn by two horses fully equipped with all the paraphernalia requisite for the protection of property from damage by water; they have spread 207 covers and have used their extinguishers sixty-one times; this company has been the means of saving much valuable property the past year.

CHEMICAL ENGINE.

Organized the past year, and consists of one Company of four permanent men; one double tank Engine, holding seventy-five gallons each, of the Perkins pattern, built by the Chicago Extinguisher Company, and drawn by two horses. It has given very good satisfaction the past year although it has had very little to do. The object of the Chemical is to extinguish incipient fires. Everybody knows that if fires are to be extinguished and property saved, it has got to be done with the greatest possible despatch; but this engine of ours is too heavy

for the amount of work it is supposed to do, and I would recommend that it be exchanged for a smaller and lighter double tank, or what would be better, two single tank Engines, placed in different localities. It has been used at twenty-five fires, and has used thirty-five tanks.

HOUSES.

There will be repairs needed in some of the houses, and some of them will need re-painting the present year; during the past year the Chemical house has been sheathed and remodelled; a new floor laid in Hook & Ladder 1; new doors in Steamer 3 and Protective; stalls carried forward ten feet making more room in stable, old stairs removed and new stairway made, and re-painted inside for steamer 3; new sliding pole, painting outside and chimney enlarged for steamer 1; new carriage shed and closet for Hose 4; new closets for Hose 6, and Steamer 2; new arrangements for opening and closing the outside doors for all the houses.

FIRES AND LOSSES.

I have the pleasure of repeating that the year just closed has been one of remarkable exemption from losses by fire; the promptness with which alarms have been given, and the prompt response by the Department, have prevented, in some cases what threatened to be serious conflagrations. The whole number of alarms of fire that occurred during the year ending March 31, 1886, was 88, of which 53

were given from signal boxes, 14 by telephone, and 21 still alarms, showing a decrease of 27 over last year; the telephone and still alarms were attended by the apparatus and men of the Department, and by their timely arrival and without alarming the whole city by sounding a bell alarm, have, in some instances prevented serious fires. The whole amount of loss by fires as near as can be ascertained, was only \$19,653.08; the whole amount of insurance was \$155,015.00, the amount of insurance paid was \$18,763.08, making the whole amount of loss above insurance \$890.00, which fully sustains the reputation of the Department for promptness and efficiency; there has been a few incendiary fires, but a large proportion of them have been caused by carelessness; the department has responded to three fires out of the City, one July, 29th, at 3:30 P. M., was a House and Barn in East Chelmsford, struck by lightning and entirely consumed, owned by J. Devine; one September 20th, at 6:20 A. M., caused by the burning of a large Ice house in Forge Valley, belonging to Hittinger & Co., of Boston, the loss was reported to be about \$75,000.00. Steamer and Hose 2 and Hose 6 with thirteen men was sent up and returned at 7:30 P. M.; the other February 10th, 11:50 P. M., was a large house in North Chelmsford surrounded by other houses which were saved without much damage; Steamer and Hose 2 and Hose 6 were sent to this fire. There has been no serious casualties and no deaths in this department the

past year; and only two deaths by burning, Mrs. Annie Coreia and Child, caused by building a fire with Kerosene Oil.

LOWELL FIREMAN'S FUND ASSOCIATION.

This benevolent association was organized December 17th, 1853, for the purpose of affording relief to such of its members as should receive injuries while in the discharge of their duties; the importance of this association to the Department cannot be overestimated. The income is derived by an annual assessment upon each member; by donations from Citizens and others; and hereafter by an annual Concert and Ball, to which the Citizens will be solicited to purchase tickets; and in behalf of the association I would return thanks to those Citizens who have aided them in the past.

The Cash on hand May 1, 1885 was:.....	\$ 9,934 99
Receipts for the year.....	618 62
	<hr/>
	\$10,553 61
Expenses.....	527 16
	<hr/>
Balance on hand.....	<u>\$10,026 45</u>

CONCLUSION.

I respectfully renew my recommendations of three years ago, that an Ordinance should be passed regulating the keeping and sale of kerosene oil; also for the appointment of an Inspector of Buildings, whose

duty it should be to examine and approve the plans of all buildings, etc.; I would further recommend that to further increase the efficiency of the Department, that one of the Assistant Engineers be appointed permanent; as the Chief is liable to be sick or away, and in case of a still alarm it is hard to get word to a Call Assistant; and I would also recommend the purchase of a first class Steam Fire Engine to be kept in reserve in case of a large fire, and sell the old Engine kept in No. 7's house. In closing this report I wish to express my thanks to my Assistant Engineers and the Officers and Members of the department for the prompt and efficient manner they have responded to all alarms, and their efforts to sustain the reputation of the Department; also to the Chief of Police and his department for their valuable assistance at fires; my thanks are also due to the Committee on Fire Department for their cordial support and prompt response to all requests made to them to provide for the Department; to the Mayor and Board of Aldermen and members of the Council my thanks are also due for their support given to the requirements of the Department; also to the Auditor, City Clerk, Treasurer, Superintendent of Streets and Water Works and all other officials with whom I have had pleasant intercourse.

Respectfully submitted,

EDWARD S. HOSMER,

Chief L. F. D.

FIRE DEPARTMENT.

MARCH, 1886.

CHIEF ENGINEER.

EDWARD S. HOSMER....Residence, 109 $\frac{1}{2}$ East Merrimack St.

ASSISTANT ENGINEERS.

JAMES F. NORTON,.....Residence, 282 Central Street.

CHARLES W. MARRIOTT,.....Residence, 393 Middlesex Street.

OSCAR J. GILBERT,.....Residence, 19 Elm Street.

GEORGE F. SALMON,.....Residence, 122 Cross Street.

TELEGRAPH OPERATOR.

GEORGE B. WHITNEY,.....Residence, 80 Middle Street.

COMMITTEE ON FIRE DEPARTMENT FOR 1886.

Aldermen, PUFFER and CROWLEY.

Councilmen, PLUNKETT, RICHARDSON and BOUTWELL.

HOPE STEAM FIRE ENGINE COMPANY.—NO. 1.
HOUSE ON GORHAM STREET.
ELEVEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
15....	Foreman	C. D. Foley.....	31	Carpenter	31 Newhall St.
12....	Assistant Foreman.	J. J. Jennings.....	29	Laborer	11 Kinsman St.
1....	Clerk.....	G. W. Lovett.....	35	Driver.....	Engine House.
17....	Engineer.....	T. McNamara.....	41	Machinist.....	52 Chambers St.
11....	Assistant Engineer	J. Angluin.....	28	Laborer.....	47 Whipple St.
19....	Hoseman.....	G. M. Cleary.....	35	Manufacturer.....	Engine House.
10....	"	T. Crowley	38	Permanent.....	Engine House.
16....	"	T. Caruthers	40	Stamper.....	31 Bleachery St.
14....	"	P. Curtin.....	33	Moulder.....	11 Bassett St.
13....	"	S. O. Connel.....	34	Plasterer.....	224 Gorham St.
18....	"	T. Collins.....	29	Mason.....	25 Chapel St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
STEAM FIRE ENGINE COMPANY No. 1.

Steamer built by Union Machine Co., of Fitchburg, Mass, in 1872; has two double-acting steam cylinders, $7\frac{1}{8}$ inches in diameter, 8 inches stroke; 2 double-acting pumps $4\frac{3}{8}$ inches in diameter, arranged to work separately or together; weight when loaded, 7,575 pounds. One two-horse hose carriage, built by the Amoskeag Company of Manchester, N. H.; 1 pair horses, one two-way chuck, 1 four-way chuck, 1 branch connection, 2 hose pipes with stop nozzles, 500 feet $2\frac{1}{2}$ -inch leather hose, 1,300 feet $2\frac{1}{2}$ -inch cotton hose, rubber lined; 50 feet 1-inch cotton hose, 1 $2\frac{1}{2}$ -inch brass cap, $5 \times 2\frac{1}{2}$ reducer, 4 small reducers, 12 spanners, 6 lanterns, 3 wrenches, 6 ladder straps, 5 iron bars, 2 axes, 1 bucket, 1 traverse-runner hose sleigh, one fuel wagon, 1 pair lead bars, 1 set double harnesses, 1 pair horse blankets, 1 pair hoods, 1 set blocks and tackle, 4 beds and bedding, one mirror, 2 bureaus, 28 chairs, 3 shovels, 2 forks, 2 brooms, 1 30-foot rope, 1 pail, 2 ladders, 1 steam boiler 1 coal hod, 1 iron ash hod, 4 coal boxes, 1 clock, one jack screw, 1 work bench and vise, 4 spittoons. 1 chisel, 2 sets shafts, 3 oil cans, 1 carriage jack, 1 copper gooseneck, 1 basket, 1 boiler, radiator, etc., 13 babges 11 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

TORRENT STEAM FIRE ENGINE COMPANY.—NO. 2.
TWELVE MEMBERS.
HOUSE ON BRANCH STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
20....	Foreman	A. C. Stearns.....	45	Permanent	Engine House.
21....	Assistant Foreman.	J. W. Abbott.....	39	Carpenter	7 Goward Court.
2....	Clerk.....	H. Boynton.....	34	Driver Hose Carriage.....	Engine House.
90....	Driver.....	M. J. Burns.....	34	Driver Steamer.....	Engine House.
28....	Engineer.....	G. Maddocks.....	41	Machinist.....	Engine House.
29....	Assistant Engineer	C. S. Hibbert.....	40	Permanent	Engine House.
22....	Hoseman	H. R. Morrison.....	26	Machinist.....	Cor. Middlesex St.
24....	"	F. Boynton.....	24	Machinist	Engine House.
23....	"	F. B. Akers... ..	31	Machinist.....	Woodbury St.
27....	"	A. S. Maynard.....	33	Carpenter.....	16 East Pine St.
25....	"	G. A. Bennett	45	Roofer.....	Carlton & Marsh'l.
26....	"	F. A. Johnson.....	29	Painter	East Pine St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
STEAM FIRE ENGINE COMPANY No. 2.

Steamer built by Blood Locomotive Works, Manchester, N. H.; weight when loaded 7,600 lbs. Two-horse hose carriage built by Leverich & Co., of New York; 500 feet $2\frac{1}{2}$ -inch leather hose, 1,500 feet $2\frac{1}{2}$ -inch cotton hose (rubber lined), 75 feet 1-inch cotton hose, 1 hose sleigh, 1 wagon, 1 traverse-runner sleds, 4 horses, 2 sets double harnesses, 1 single harness, 5 blankets, 3 hoods, 1 two-way chuck and reducer, 1 four-way chuck, 1 branch connection, 2 hose pipe with stop nozzles, 6 spanners, 6 ladder straps, 2 hydrant wrenches, 2 axes, 2 bars, 1 jack Screw, 2 pair lead bars, 6 coal boxes, 17 arm chairs, 12 cane-seat chairs, 3 mirrors 2 bureaus, 1 clock, 1 work bench and vise, 6 beds and bedding, 1 steam boiler, radiators, etc., 1 set blocks, 5 ash hods, 1 table, 15 badges, 15 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer, 1 pair skids for loading steamer on to a car, trigs, etc., 1 heater.

WAMESIT STEAM FIRE ENGINE COMPANY.—NO 3.
ELEVEN MEMBERS,
HOUSE ON MIDDLE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
30....	Foreman	F. Hoyt.....	37	Permanent.....	Engine House.
35....	Assistant Foreman.	D. W. Hilliard.....	35	Carpenter	Staples St.
3.....	Clerk	J. Cowell.....	38	Permanent.....	Engine House.
33....	Engineer	E. L. Brown.....	49	Machinist	120 Merrimack C.
34....	Ass't Engineer....	J. G. Merchant.....	47	Engineer	188 Westford St.
32....	Hoseman	A. C. Walton.....	47	Manufacturer	48 Mass. Corp.
37....	"	F. Roark	36	Lighter	Middle St.
38....	"	A. Kennedy	28	Painter	Bridge St.
39....	"	W. H. Dana.....	27	Machinist	1 Machine Corp.
31....	"	G. Halstead.....	28	Painter	Washington St.
36....	"	W. H. Landers.....	27	Machinist	Engine House

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
STEAM FIRE ENGINE COMPANY, No. 3.

Steamer built by Hunneman & Co., in 1866; weight when loaded, 7,650 lbs.; 30 feet suction hose with hydrant couplings, 1 hose carriage with shafts and poles, 1 hose sleigh, 1 whiffle-tree, 2 horses, 2 pairs double harness, 4 halter bridles, 4 horse blankets, 2 hoods, 300 feet leather hose, 1,800 feet $2\frac{1}{2}$ inch cotton hose, (rubber lined), 2 two-way chucks and reducers, 1 four-way chuck, 1 reducer and cap, 2 pipes and stop nozzles, 2 branch connections, 2 hydrant wrenches, 4 spanners, 1 bar, 2 shovels, 4 ladder straps, 6 lanterns, 4 beds and bedding, 2 mirrors, 1 clock, 20 chairs, 1 hose rope, 1 jackscrew, 1 monkey wrench, 1 carriage jack, 1 steam boiler, radiators, etc., 11 badges, 11 sets regulation buttons, and all tools necessary for cleaning horses and repairing steamer.

MAZEPPA HOSE COMPANY.—NO. 4.

HOUSE ON FAYETTE STREET.

NINE MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
41....	Foreman!	John J. Quinlan.....	33	Machinist	22. Bartlett St.
40....	Assistant Foreman	Edwin J. Little.....	39	Permanent	Hose House.
4....	Clerk.....	William King.....	43	Driver.....	Hose House.
45....	Hoseman.....	Charles Morse.....	44	Finisher.....	88 Fayette St.
46....	"	J. D. King.....	33	Lather.....	Hose House.
47....	"	J. E. Burns.....	25	Meat Market.....	7 Prescott Corp.
44....	"	Michael Connor.....	34	Plasterer.....	55 Pleasant St.
42....	"	J. E. Sullivan	33	Mason	116 Fayette St.
43....	"	James Dolan.....	45	Painter	41 High St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOSE COMPANY. No. 4.

1 two-horse hose carriage, built by the Abbott-Downing Co., of Concord, N. H.; 2 horses, 2 harnesses, 3 blankets, 1 four-way chuck, 1 two-way chuck, 2 hydrant wrenches, 3 hose pipes and 2 stop nozzles, 8 spanners, 1 branch connection and cap, 4 reducing couplings, 3 bars, 5 ladder straps, 8 lanterns, 1 monkey wrench, 50 feet $\frac{3}{4}$ -inch rubber hose, 900 feet $2\frac{1}{2}$ -inch rubber hose, 300 feet $2\frac{1}{2}$ -inch leather hose, 1 carriage jack, 2 clocks, 2 mirrors, 2 stoves, 1 table, 1 flag, 1 ladder, 10 chairs, 1 ash hod. 1 coal sifter, 1 duster, 2 shovels, 3 water pails, 1 S wrench, 5 spittons, 1 map. 1 hose sleigh, 1 fuel wagon, 3 beds and bedding, 2 bureaus, 11 badges, 9 sets regulation buttons, and all tools for cleaning horses.

WELLMAN HOSE COMPANY.—NO. 5.

NINE MEMBERS.		HOUSE ON FOURTH STREET, CENTRALVILLE.			
Badge.	Rank.	Name.	Age.	Occupation.	Residence.
51....	Foreman.....	Geo. W. Patten.....	32	Florist.....	Engine House.
50....	Atsistant Foreman.	C. F. Hemenway.....	36	Permanent.....	Engine House.
5....	Clerk.....	A. E. Kidder.....	30	Driver.....	Engine House.
57....	Hoseman.....	H. A. Merrill.....	23	Piper.....	Engine House.
54....	"	Alphonso Merrill.....	49	Truckman.....	29 Fifth St.
53....	"	Herbert Miller.....	32	Piper.....	93 Bridge St.
52....	"	J. W. Jantzen.....	36	Machinist.....	100 Bridge St.
55....	"	Frank Mansur.....	36	Carpenter.....	9 Fourth St.
56....	"	Edward Boyle.....	40	Truckman.....	49 River St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOSE COMPANY, No. 5.

One two-horse hose carriage, built by Manchester Locomotive Works; 1 horse hose carriage, built by J. J. Wright & Co., loaded with 400 feet leather hose kept in reserve; 2 horses, 3 harnesses, 2 bridles, 500 feet $2\frac{1}{2}$ -inch leather hose, 1,400 feet $2\frac{1}{4}$ -inch cotton hose, (rubber lined), 50 feet $\frac{3}{4}$ -inch rubber hose, 2 hose pipes and stop nozzles, 1 spray, 1 reducer, 1 wooden pail, 20 chairs, 4 beds and bedding, 1 reducing coupling, 1 cap, 8 spanners, 2 wrenches, 6 lanterns, 2 bars, 1 ladder, 1 axe, 1 carriage jack, 3 shovels, 3 brooms, 2 forks, 1 clock, 1 duster, 1 sifter, 1 hose sleigh, 3 spittoons, 1 pair steps, 1 two-way chuck, 1 four-way chuck, 1 connection, 2 oil cans, 1 table, 140 feet $\frac{3}{4}$ -inch rope, 1 iron pulley, 1 set pulley blocks, 2 ashhods, 1 wagon, 3 horse blankets, 1 stern boiler, radiators, etc. 10 badges, 9 sets regulation buttons, and all tools for cleaning hosses.

EXCELSIOR HOSE COMPANY.—NO. 6.

HOUSE ON CENTRAL STREET.

NINE MEMBERS.

Bad ge.	Rank.	Name.	Age.	Occupation.	Residence.
61....	Foreman.....	E. Cunningham.....	38	Gas Fitter.....	82 Charles St.
62....	Atsistant Foreman.	R. O'Connell.....	30	Plumber.....	77 Chapel St.
6....	Clerk.....	E. O'Connell.....	28	Driver.....	Hose House.
60....	Hoseman.....	C. Riley.....	30	Permanent.....	Hose House.
63....	"	J. Blackburn.....	28	Plumber.....	29 Elm St.
64....	"	P. Emerson.....	27	Carpenter.....	2 Madison St.
66....	"	A. Gibson.....	30	Painter.....	10 Cady St.
67....	"	D. Crowley.....	34	Carpenter.....	Hose House.
65....	"	E. Crowley.....	31	Coppersmith.....	28 Cady St

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOSE COMPANY NO. 6.

One two-horse hose carriage built by Manchester Locomotive Works; 1 hose sleigh, 2 horses, 2 harnesses, 2 blankets, 2 forks, 2 brooms, 3 beds and bedding, 700 feet leather hose, 700 feet rubber hose, 3 pipes, 2 stop nozzles, 6 lanterns, 1 ax, 1 two-way chuck, 1 four-way chuck, 1 reducer, 2 hydrant wrenches, 1 reducing coupling, 1 brass cap, 1 bar, 4 spanners, 3 ladder straps, 1 connection, 1 duster, 1 brush, 18 chairs, 4 spittoons, 1 mirror, 1 carriage jack, 50 feet $\frac{1}{2}$ -inch rubber hose, 2 clocks, 1 coal hod, 1 hose rope, 1 oil can, 2 shovels, 1 pail, 1 step ladder, 1 wagon, 1 carriage pole, 1 dressing case, 1 steam boiler, radiator, etc., 2 bridles, 11 badges, 9 sets regulation buttons, and all tools for cleaning horses.

MECHANICS HOSE COMPANY.—NO. 7.

NINE MEMBERS. HOUSE ON CORNER FLETCHER AND CLARK STS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
70....	Foreman	David J. Hurley.....	34	Permanent	Hose House
71....	Assistant Foreman	E. W. Fletcher.....	32	Moulder.....	68 L. M. & S. Corp
7....	Clerk.....	B. C. Reed.....	31	Driver.....	Hose House
73....	Hoseman.....	J. H. Joyce.....	44	Moulder.....	17 Butterfield St.
77....	"	J. A. Fletcher.....	29	Moulder.....	11 Carleton St.
72....	"	T. J. McDonald	33	Salesman	14 Franklin St.
75....	"	T. F. Welch	36	Cabinet Maker.....	49 Common St.
78....	"	J. J. Murrey	34	Cabinet Maker.....	292 Middlesex St.
74....	"	D. W. Russell.....	32	Knitter.....	33 Bowers St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOSE COMPANY NO. 7.

One two-horse hose carriage built by Manchester Locomotive Works; Steamer built by Hunneman & Co., in 1868, and one two-wheeled hose carriage kept in reseave; 2 horses 1 hose sleigh, 2 harnesses, 1 halter, 1 bridle, 2 blankets, 1 hood, 1,500 feet $2\frac{1}{2}$ -inch cotton hose (rubber lined), 2 pipes and stop nozzles, 10 spanners, 1 two way chuck, 1 four way chuck, 1 large and one small reducer, 1 bar, 3 brooms, 1 carriage, jack, 2 pails, one connection with cap, 2 ladder straps, 1 duster, 1 ladder, 1 brush, 6 lanterns, 4 spittoons, 1 shovel, 17 chairs, 3 beds and bedding, 1 wagon, 2 axes, 1 ash hod 1 clock, 1 mirror, 1 gas stove, 1 steam boiler, radiators, etc., 11 badges, 11 sets regulation buttons, and all tools for cleaning horses.

WILSON HOSE COMPANY.—NO. 8.
HOUSE IN PAWTUCKETVILLE.

TEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
91....	Foreman	C. E. Luscomb.....	48	Painter	Second Avenue.
92....	Assistant Foreman.	J. L. Stevens.....	36	Mason.....	1 Poplar St.
94....	Clerk	J. W. Cassidy.....	43	Dry Goods.....	Mt. Grove St.
95....	Hoseman	J. P. Fowler.....	37	Carpenter	Fourth Avenue.
96....	"	A. F. Cogger.....	41	Blacksmith.....	Fourth Avenue.
97....	"	A. H. Vining.....	42	Carpenter	Mammoth St.
98....	"	C. H. Luscomb.....	27	Pedler.....	Second Avenue.
99....	"	Hiram Vining.....	39	Carpenter	Fourth Avenue.
93....	"	Geo. H. Henderson.....	36	Carpenter	Meadow Road.
115....	"	A. J. Mitchell.....	32	Harness Manufacturer.....	Meadow Road.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOSE COMPANY, No. 8

One hose carriage, 750 feet of hose, 1 stove, 1 coal hod, 4 kerosene lamps, 10 chairs, 1 table, 2 pipes, 1 two-way chuck, 1 carriage jack, 1 axe, lanterns, etc., 10 badges, 10 sets regulation buttons.

LAMSON HOSE COMPANY.—NO. 9.

HOUSE AT AYER'S CITY.

TEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
58....	Foreman	F. Craggy	25	Blacksmith	126 Howard St.
49....	Assistant Foreman.	J. Hendricks	29	Currier	1 Main St.
79....	Clerk	C. Webster	30	Carpenter	London St.
48....	Hoseman	P. Webster	36	Carpenter	London St.
59....	"				
69....	"	J. Baxter		Machinist	2 Blossom St.
86....	"	J. Wilkins		Machinist	6 Main St.
87....	"	C. Greenleaf		Carpenter	Main St.
88....	"	J. Haley		Currier	8 Blossom St.
89....	"	P. Moore		Grocery Dealer	178 Lincoln St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOSE COMPANY No. 9.

One hose carriage, 900 feet leather hose, 2 pipes, 1 two-way chuck, 3 wrenches, 3 spanners, 2 ladders, 2 stoves, 1 table, 4 lamps, 2 lanterns, 9 chairs, 2 brooms, 10 badges, 10 sets regulation buttons.

FRANKLIN HOOK AND LADDER COMPANY—NO. 1.
FIFTEEN MEMBERS.
HOUSE ON MIDDLE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
102...	Foreman	H. B. Downs.....	51	Carpenter	47 Hamilton Corp.
101...	Ass't Foreman...	F. E. Fuller'.....	37	Permanent	H. & L. House.
104...	Clerk	W. L. Peabody.....	37	Driver.....	H. & L. House.
105...	Ladderman	N. Bishop.....	47	Spinner.....	26 Lawrence Corp
106...	"	H. C. Daggett.....	59	Carpenter	6 Prescott Corp.
108...	"	J. A. Pullen.....	57	Machinist.....	161 Merrimack C.
109...	"	H. S. Gardner.....	34	Moulder.....	125 Worthen St.
111...	"	J. C. Jones.....	43	Carpenter	West Sixth St.
112...	"	C. M. Brooks.....	35	Carpenter	44 Merrimack C.
114...	"	Geo. Sargent.....	32	Carpenter	West Fourth St.
113...	"	F. W. Simons.....	34	Bill Poster	Merrimack St.
107...	"	H. C. Fernald.....	32	Permanent	H. & L. House.
110...	"	Wm. Marsden.....	32	Painter.....	48 Mass. Corp.
103...	"	C. W. Dana.....	30	Machinist.....	74 L. M. S. Corp.
108...	"	C. Stackpole.....	28	Moulder.....	66 School St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOOK AND LADDER COMPANY No. 1.

Hook and ladder truck with tiller, built by Buckley & Merritt, New York; 1 Bangor ladder, 65 feet, 1 40 feet, 1 36 feet, 1 25 feet, 1 20 feet, 2 30 feet each; 2 roof ladders, 15 and 25 feet; 1 12-foot ladder, 4 forks, 4 axes, 4 buckets, 9 lanterns, 2 shovels, 1 bunter, 1 bar, 1 wrench, 2 horses, 1 set double harnesses, 4 blankets, 1 fuel wagon, 1 traverse runner sleigh, 10 hooks, 20 feet $\frac{1}{2}$ -inch rubber hose, 100 feet rope, 8 chairs, 2 brooms 1 mirror, 1 steam boiler, radiator, etc., 3 beds and bedding, 17 badges, 15 sets regulation buttons, and all tools for cleaning horses.

GEORGE HOBSON HOOK AND LADDER COMPANY—NO. 2.
TEN MEMBERS.
HOUSE ON MIDDLE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
122...	Foreman.....	H. W. Burton.....	44	Wire Worker.....	4 Kimball Court.
121...	Assistant Foreman,	Geo. A. Alcott.....	32	Permanent.....	H. & L. House.
120...	Clerk.....	H. J. Foster.....	36	Driver	H. & L. House.
123...	Ladderman.....	D. Pickman.....	62	Machinist.....	52 Pleasant St.
124...	"	C. Thompson.....	32	Carpenter	25 Varney St.
125...	"	J. Farrell.....	33	Machinist	71 Common St.
126...	"	W. N. Flagg.....	40	Carpenter	119 Merrimack St.
127...	"	E. Bartlett.....	38	Carpenter	27 Fletcher St.
128...	"	E. Kerwin.....	36	Piper.....	8 Cady St.
129...	"	T. McCormick.....	31	Line Manufacturer.....	94 River St.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
HOOK AND LADDER COMPANY No. 2

Hook and ladder truck, built by Juckett & Freeman, of Boston; 1 Bangor and 1 Leverich ladder, each 55 feet long; 2 roof ladders, 1 18 feet and 1 16 feet long; 5 other ladders, 2 32 feet, 2 22 feet and 1 12 feet long; 6 props, hooks, 4 axes, 2 adjustable hooks for roof ladders, 3 shovels, 3 lanterns, 3 forks, 3 rakes, 1 bar, 1 bunter, 1 Siamese connection, 200 feet rope, 2 pails, 2 whips, 1 carriage jack, 13 chairs, 1 table, 1 mirror, 2 clocks, 1 duster, 1 brush, 50 feet $\frac{3}{4}$ -inch hose, 2 horses, 2 harnesses, 2 blankets, 2 halter bridles, 3 beds and bedding, radiators, etc., 12 badges, 12 sets regulation buttons, and all tools necessary for cleaning horses.

PROTECTIVE COMPANY.—NO. 1

HOUSE ON WARREN STREET.

SEVEN MEMBERS.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
80....	Foreman	J. L. Flagg.....	49	Permanent.....	Protective House.
83....	Assistant Foreman.	W. P. Wiley.....	32	Bleacher	96 Merrimack St.
8....	Clerk	J. J. Harrington.....	35	Driver.....	Protective House.
82....		H. Coulam.....	32	Manufacturer.....	42 Hamilton Corp.
85....		L. S. Kimball.....	35	Roll Coverer	Protective House.
81....		J. W. Halstead.....	37	Permanent	Protective House.
84....		W. H. Halstead.....	41	Permanent	Protective House.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
PROTECTIVE COMPANY No. 1.

One wagon complete, built by the Abbott Downing Co., of Concord, N. H.; 2 horses, one pair double harnesses, 2 horse blankets, 45 covers, 1 canvas blanket, 3 extinguishers, 65 feet $\frac{3}{4}$ -inch rubber hose, 3 paper pails, 3 large sponges, 4 brooms, 4 shovels, 2 axes, 4 squill-gees 1 pick, 2 crowbars, 9 lanterns, 2 Johnson pumps, 25 lbs. vitrol, 50 lbs. of bicarbonate soda, 18 bottles for vitrol, 24 soda cans, 5 beds and bedding, 1 fire shovel, 1 monkey wrench, 1 carriage jack, 1 stable broom, 1 copper boiler, 2 stable pails, 3 spittoons, 2 mops, 1 desk, 2 bureaus, 14 chairs, 1 feather duster, 1 chamois skin, 2 oil cans, 1 mirror, 2 ash cans, 2 clocks, 1 sleigh complete, 75 feet of old rope, 1 lath rake, 1 steam boiler, radiator, etc., 11 badges, 11 sets regulation buttons and all tools for cleaning horses, 2 extra wheels, 1 pair steps for wagon, 1 set traverse runners, 1 set blocks, 1 fire escape, 1 jack, 7 dozen hand grenades, 2 snow shovels.

CHEMICAL ENGINE COMPANY.—NO. 1.

FOUR MEMBERS. HOUSE ON MERRIMACK, CORNER RACE STREET.

Badge.	Rank.	Name.	Age.	Occupation.	Residence.
130...	Foreman	S. E. Bartlett.....	37	Permanent	Chemical House.
131...	Assistant Foreman.	W. J. Flynn.....	33	Permanent	"
132...	Clerk.....	J. A. Pierce.....	37	Driver.....	"
133...	Pipeman.	J. Starr.....	29	Permanent	"

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
CHEMICAL COMPANY No. 1.

One Chemical Engine manufactured by the Fire Extinguisher Manuf'g. Co., of Chicago Ill., in 1885; 2 horses, 1 set double harnesses, 400 feet 1-inch rubber hose, 50 feet 1½-inch supply hose, 2 pipes, 1 axe, 1 pick, 13 chairs, 4 beds and bedding, 1 table, 2 horse blankets, 2 clocks, 1 bureau, 1 indicator, 1 gong, 2 mirrors, 1 carpet and all tools for cleaning horses, 4 badges, 4 cap fronts, 4 sets regulation buttons.

SCHEDULE OF PROPERTY BELONGING TO THE CITY, IN CARE OF
FIRE ALARM OPERATOR.

One six circuit automatic non-interference repeater, 1 cut out and testing switch-board, 8 galvanometers, 61 signal boxes (non-interfering), 8 bell strikers, 11 large gongs, 8 small gongs, 11 registers, 11 electrical arrangements for opening stall doors, etc., 66 miles wire, 325 cups Hill's battery, 15 magneto call bells, 12 extension bells, 18 battery cups, 325 zines, 422 chesnut poles, 50 roof brackets, 15 key boards, arresters, etc., 50 glass insulators, 25 pole brackets, 24 call bells, 2 saws, 2 hammers, 2 screw drivers, 2 straps with vises, 2 draw straps and clutches, pliers, tongs, set bits and bit stock, 3 shovels, 2 bars, 1 pickaxe, 2 spoons, 1 tamping bar, 1 cant hook, 1 broadaxe, 2 pike poles, 3 pair climbers, 1 deadman, 3 ladders, $\frac{1}{2}$ -mile wire, 1 draw shave, fire alarm box keyes, locks, outside shells and doors to boxes, pocket relay lanterns, table, chairs, feather dusters, chamois skins, 1 horse, harness, blankets, etc., 2 wagons, 1 sleigh.

SUPPLY ROOM.—Mops, waste, lantern globes, sponges, harness, castile and washing soaps, sal soda, polishing and harness oils, spanners, wrenches, brooms, pails, matches, washers, mane brushes, axle grease, emery cloth, rotten stone, candles, etc.

SCHDEULE OF OTHER PROPERTY BELONGING TO THE DEPARTMENT.

One horse, wagon, sleigh and harness, for the Chief Engineer's use; 2 spare horses, 1 four-wheeled hand hose crriage, 1 two-way chuck, 1 gooseneck and other tools for working on hydrants. There are also at the Chief's office, 1 desk, set of drawers, table, 16 chairs. 1 respirator, 1 silver and 2 brass trumpets with case, looking glass, 1 wardrobe, 1 bed lounge, carpet, department badges and buttons, lanterns, water gauge, 1 set dies for department badges, 3 sets dies for regulation buttons, etc. The value of the foregoing property is \$107,000.00.

FIRE ALARM TELEGRAPH.

Location, Engine House, Middle St.

GEORGE B. WHITNEY, O P E R A T O R .

Six Circuit Automatic Repeater, with Battery of.....	315	Cups.
Miles of Line Wire.....	55	
Signal Boxes	61	
Engineer's Gongs	14	
Engine House Gongs.....	11	
Indicators.....	11	
Strikers	8	

The strikers are located as follows: Police Station, Varnum School House, High Street Church, Court House, No. 1 Engine House, Franklin School House, Pawtucketville Church, No. 7 Hose House.

The standard time is struck at one o'clock P. M. each day by Harry Raynes.

One stroke dismisses, two strokes call out the entire department.

MAGNETO BELL TELEPHONE CIRCUIT.

Complete Stations	15
Extension Bells for sleeping rooms	13
Miles Wire.....	11

GENERAL RUNNING ORDERS.

The companies will respond to alarms of fire given from boxes as indicated on the running card.

The Chief, First Assistant and Protective Company will answer alarms from all boxes.

When an alarm of fire is given all companies not responding will remain at their houses thirty minutes, unless dismissed by telegraph signals, viz: One blow on the engine house gongs and alarm bells will be understood as proclaiming the fire extinguished, and the companies not attending be dismissed; two strokes will constitute a general alarm, and all companies will respond immediately, after waiting 30 seconds to be sure that it is not an alarm from another box. After a first alarm is given and before the recall signal is struck, should an alarm be given from another box, all unemployed companies will respond after waiting twenty seconds.

SIGNAL BOXES, COMPANIES AND ENGINEERS RESPONDING TO ALARMS.

LOCATION OF SIGNAL BOXES.	HOSE COS'.	STEAMER	H. & L.	ENGINEERS.
3.—Corner Broadway and Mt. Vernon.....	1, 2, 3, 7.	2, c.	1	M. S. G.
4.—Dutton Street, opposite Parker & Cheney's.....	2, 3, 6, 7.	1, 2, c.	1, 2	M. S. G.
5.—Corner of Cushing and Fletcher Streets.....	2, 3, 4, 5, 7	1, 2, c.	1, 2	M. S. G.
6.—Corner of Little and Lewis Streets.....	3, 4, 5, 7,	c	1	M. S.
7.—Corner of Market and Dutton Streets.....	3, 4, 5, 7	c.	1	S. G.
8.—Corner of Westford and School Streets.....	1, 2, 7	2, c.	2	M.
9...Corner of Common and Salem Streets.....	2, 3, 7,	c.	1	S
12.—Market Street; Police Station.....	3, 4, 5, 6	c.	1, 2	S. G.
13.—Corner of Prescott and Merrimack Streets.....	3, 4, 5, 6	c.	1, 2	S. G.
14.—Corner Fayette and Andover Streets, Belvidere.....	3, 4, 5, 6	..	2	M. G.
15.—Bleachery Street, on Bleachery Stable.....	1, 3, 4, 6	2	2	G.
16.—Hosford Square: Chapel Hill.....	1, 4, 5, 6	..	1	M. G.
17.—Corner Middlesex and Walker Streets.....	1, 2, 6, 7	2	2	M.
18.—Junction of Hale and Lincoln Streets.....	1, 2, 3, 7, 9	2	2	M.
19.—Corner Union and Gorham Streets.....	1, 3, 5, 6	c.	1	M. G.

Signal Boxes, Companies and Engineers Responding to Alarms.—Continued.

LOCATION OF SIGNAL BOXES.	HOSE CO'S	STEAMER	H. & L.	ENGINEERS.
21.—Corner of Kirk and Merrimack Streets.....	3, 4, 5, 6, 7	C.	1, 2	S. G.
23.—Corner Coburn and River Streets, Centralville.....	3, 4, 5	C.	1	G.
24.—Corner of Middlesex and South Streets.....	1, 2, 5, 6	2, C	1	M. G.
25.—Merrimack Street; Tremont House.....	3, 4, 5, 7	C.	1	S.
26.—Corner Fletcher and Pawtucket Streets.....	2, 3, 7, 8	C.	1	S.
27.—Riverside and Mammoth Streets, Pawtucketville.....	2, 3, 7, 8	2, C.	2	S.
28.—Corner of Hall and Aiken Streets.....	2, 4, 5, 6, 7	2, 3, C.	1	M. S.
29.—Corner Tenth and Myrtle Streets Centralville.....	4, 5, 6	3, C.	2	G.
31.—Corner of High and East Merrimack Streets, Belvidere.....	3, 4, 5, 6	C.	1	S. G.
32.—Corner of Bridge and Tenth Streets, Centralville.....	3, 4, 5, 6	..	2	G.
33.—Corner Broadway and Walker Streets.....	2, 3, 4, 7, 8	1, 2	1	S.
34.—Lincoln Street, on Tannery; Ayer's City.....	1, 2, 3, 6, 9	2	2	M. S.
35.—Corner Charles and Lawrence Streets.....	1, 4, 5, 6	..	1	G.
36.—City Farm, on Pole.....	1, 2, 6, 7	2, C.	2	M.
37.—Corner of Whipple and Kinsman streets.....	1, 3, 4, 6	2	2	G.

38.—Fair Ground; on Building.....	1, 2, 4, 6	2	2	G.
39.—Corner Fletcher Street and Broadway.....	2, 3, 4, 7	1, 2, C.	1	S.
41.—Corner Wyman and Nesmith Streets, Belvidere.....	1, 4, 5, 6	2	2	M. G.
42.—Middlesex Street; old Engine House.....	2, 3, 4, 6, 7	1, 2, C.	1, 2	M. S.
43.—Highland Street; Edson School House.....	1, 2, 5, 6	2	2	G.
45.—Engine House; Branch Street.....	1, 2, 6, 7	..	2	M.
46.—Corner Bridge and First Streets, on Pole.....	3, 4, 5, 6	..	2	S. G.
47.—Andover Street, near B. F. Butler's driveway.....	1, 4, 5, 6	..	2	M. G.
48.—Corner Dover and Grove Streets.....	1, 2, 7	2	2	M.
51.—Junction Gorham and Thorndike Streets.....	1, 3, 4, 6	2	1	G.
52.—Corner of Austin and Moody Streets.....	2, 4, 5, 7	2, C	1	S. M.
53.—Central Street; Boston and Maine Depot.....	2, 3, 4, 5, 6	2, C	1, 2	M. G.
54.—School Street, near Gas Works.....	2, 3, 4, 7	1, 2, C	1	M. S.
56.—Middle Street; Engine House.....	3, 4, 5, 6	C	1	S. G.
57.—Warren Street, opposite George Street.....	2, 3, 4, 5, 6	2, C	1, 2	M. G.
61.—Lawrence Street, above Stott's Mills.....	2, 3, 4, 6	1, 2	1	M. G.
62.—Corner School and Bowers Streets.....	2, 3, 7, 8	2, C	2	S.
63.—Corner of Hale and Howard Streets.....	1, 2, 4, 6	2	2	M. G.

Signal Boxes, Companies and Engineers Responding to Alarms.—Continued.

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FIRE DEPARTMENT.

LOCATION OF SIGNAL BOXES.	HOSE CO'S	STEAMER	H. & L.		ENGINEERS.
64.—Corner Third and Myrtle Streets, Centralville.....	4, 5, 6	..	2		G.
65.—River Street, near Aiken Street Bridge.....	4, 5, 7	C	2		S.
67.—Hildreth Street, opposite Lilley Avenue.....	4, 5, 7	C	2		S.
71.—Middlesex Village; on Pole, opposite Hotel	2, 3, 7,	2, C	2		M.
72.—Middlesex Street; opposite Huntoon's Stable.....	2, 3, 4, 6, 7	1, 2, C	1, 2		M. S.
73.—Mammoth Street, near line, Pawtucketville.....	2, 3, 7, 8	2, C	2		S.
74.—Varnum Avenue, Pawtucketville.....	3, 7, 8	2, C	2		S.
81.—Corner Pine and Wilder Streets.....	1, 2, 6, 7	2, C	2		M.
82.—Corner Chelmsford and Grand Streets	1, 2, 6, 7	..	2		M.
83.—Corner Powell and Smith Streets.....	1, 2, 6, 7	2	2		M.
84.—Corner of Westford and Gates Streets.....	1, 2, 6, 7	2	2		M.
92.—Bridge Street, opposite Whitney's.....	4, 5, 6	3, C	2		G.
131.—Corner East Merrimack and Howe Streets.....	3, 4, 5, 6	2, C	1		G. S.

INSTRUCTIONS TO KEY-HOLDERS.

Alarms are to be given from the box nearest the location of the fire.

Upon the discovery or positive information of a fire, you will unlock the box, pull down the slide or hook once only, and let go. If you hear on sound from the bell in the box, pull again. If you fail a second time, go to the next nearest box and do the same. Also be particular to remain at the box until the arrival of an engineer, who will release the key.

Each box contains a small bell, which if heard, before you pull the hook, indicates that the alarm has been previously given from another box. In such cases, do not pull the hook, until you are sure the alarm has been completed.

Never signal for a fire seen at a distance; Never touch the hook except to give an alarm of fire. Give an alarm for no cause other than an actual fire.

Second alarms for the same fire will be given only by one of the Engineers.

Never let the key go out of your possession unless called for by the Chief Engineer. If you change your residence or place of business where the key is kept, return the key to the same officer.

Keys to the boxes are in possession of responsible persons in the vicinity of the signal boxes; also in the hands of the police.

Citizens are requested to inform themselves where the keys to the signal boxes are kept.

COMPANIES RESPONDING TO TELEPHONE ALARMS.

DISTRICT No. 1.—South side of Pawtucket Canal and west side of Boston & Lowell R. R. Nos. 1 and 2.

DISTRICT No. 2.—East side of Boston & Lowell R. R., to and including Hale, South Highland, Walnut, Whipple and Watson Streets, to Concord River. Nos. 1 and 6.

DISTRICT No. 3.—East side of Boston & Lowell R. R., Appleton, Middlesex and Jackson, to and including South Street. Nos. 2 and 6.

DISTRICT No. 4.—East side of Boston & Lowell R. R., from but not including Appleton Street, to but not including Hale, South Highland, Walnut, Whipple and Watson Streets to Concord River, and south side of Pawtucket Canal, east side of, but not including, South to Appleton Street. Nos. 4 and 6.

DISTRICT No. 5.—Belvidere. Nos. 4 and 6.

DISTRICT No. 6.—Centralville. Nos. 3 and 5.

DISTRICT No. 7.—West of Concord River to Pawtucket Canal, East of Boston & Lowell R. R., to Merrimac River. Nos. 3 and 5.

DISTRICT No. 8.—West of Boston & Lowell R. R., and north of Pawtucket Canal, including Pawtucketville. Nos. 3 and 7.

Hook and Ladder No. 1, will respond in the district bounded as follows: West of Concord River, to and including Taylor, Wamesit, Elm, Highland, Thorndike and Fletcher Sts., to Merrimac River, to Concord River.

Hook and Ladder No. 2 will respond to all the rest.

Protective Company will respond to all alarms.

LOCATION OF KEYS TO FIRE ALARM BOXES.

Box 3.—Harris Machine Shop; Lowell Hosiery; A. Batchelder, corner Cross and Mt. Vernon Streets; B. Greathead's store, corner Mt. Vernon and Broadway; Otis Allen & Son's Mill.

Box 4.—Engine room Wamesit Mills; Cole & Nichols' Foundry; Howes & Burnham, lumber dealers; M. C. Pratt's; Parker & Cheney's; Whitney & Tibbett's.

Box 5.—Engine-room, Brook's Mill; C. P. Stanton's variety store, Liberty Square; A. L. Wright's Machine Shop; D. G. Harrington, 51 Fletcher Street; D. Lovejoy & Son, corner Fletcher and Cushing Streets; G. W. Fifield's Machine Shop; Noyes' Stable.

Box 6.—Office of Locks and Canals; J. S. Adams, 42 Broadway; D. Murphy, 49 Suffolk Street; J. F. Murphy, corner Suffolk Street and Broadway.

Box 7.—J. Plunkett's Drug Store; J. Gates & Sons'; Hadley's Stable; Lowell Card Company.

Box 8.—J. G. Merchant, 78 Westford Street; D. Whithed, Jr., corner Branch and School Streets; W. S. Gordon, corner Westford and School Streets.

Box 9.—P. Quinn, grocery; J. Warren, 31 Clark Street; W. J. Hughes, Grocer.

Box 12.—Police Station.

- Box 13.—M. O. Carter's drug store; stable on Prescott Street; C. R. Kimball's drug store; C. T. Chamberlin, Undertaker; Whithed & Co's, coal office; Tea Store corner Prescott Street.
- Box 14.—C. Hall, grocer, Andover, Street; A. Billingsley, variety store; W. A. Ingham, Grocer, corner Fayette and Andover Streets. L. Richards, Andover Street: Warren Clifford, 102 High Street.
- Box 15.—Bleachery Counting Room; Walsh's Mill; J. F. Thorning, 26 Bleachery Street.
- Box 16.—L. C. Manchester, 299 Central Street; T. E. Stratton, 18 Ames Street; J. F. Norton, Cady Street; J. Tilton, 344 Central Street; Walker's Mill, Lawrence Street; E. Hamblet's drug store.
- Box 17.—J. F. Manahan, 84 Branch Street; E. J. Noyes, 491 Middlesex Street; C. D. Starbird, 92 Branch Street; Pevey's Mill; S. H. Weaver, corner Middlesex and Walker Street.
- Box 18.—Mrs. J. P. Dudley, 7 Lincoln Street; C. S. Hadley, 37 Lincoln Street; Gates' Tannery; B. Edwards, 148 Hale Street; W. H. Bagshaw, 147 Hale Street.
- Box 19.—M. Corbett, 65 Gorham Street; T. Gorman, grocer, 107 Gorham Street; H. Morris, 71 Union Street; A. Q. Phelan's drug store.
- Box 21.—Carleton Hovey's drug store; Wood Yard Office, Kirk Street.
- Box 23.—Charles Callahan, River Street; Peter Fox, 90 River Street; J. F. Callahan, River Street; Kilbridge, River Street; F. J. Joyce, grocer.
- Box 24.—S. W. Churchill's grocery; F. W. S. Daly, 18 Appleton Corporation; G. F. Wehr, 11 Appleton Corporation; T. G. Little, Appleton Street; Martin Moran, 27 South Street; Parker's Stable, Middledex Street.

Box 25.—Tremont Hotel.

Box 26.—J. A. Knowles, Jr., corner Fletcher and Pawtucket Streets; S. Bartlett, 273 Fletcher Street; J. Johnson, 61 Pawtucket Street.

Box 27.—A. C. Varnum, 9 Varnum Avenue; C. E. Luscomb, Second Avenue; O. R. Blood; both grocery stores; Maj. Emery's Barn; P. S. Coburn.

Box 28.—Harris' Harness Mill; Lawrence Counting Room; Tremont Counting Room; Watchman on Lawrence Corporation; J. G. Hill, 87 Cabot Street; two French Bakeries; W. K. Marshall, 94 Hall Street.

Box 29.—J. M. G. Parker's, 41 Tenth Street; C. I. W Maynard, 31 Tenth Street; M. Green, 24 Tenth Street; P. Webster, 29 Myrtle Street.

Box 31.—Dr. Fox, corner High and East Merrimack Streets; A. G. Thompson's provision store.

Box 32.—Woods, Sherwood & Co., wire works; F. G. Morse, 10 Webster Avenue; D. H. Varnum, corner Bridge and Tenth Streets; N. C. Mallory, 182 Bridge Street; J. P. Roberts, engineer, Water Works.

Box 33.—C. Kemp, corner Broadway and Walker Street; R. Goulding, 98 Walker street; L. Stevens, 111 Walker Street; J. G. Peabody, corner Wilder Street and Broadway; Charles Thompson, 124 Walker Street.

Box 34.—C. Webster, 137 Lincoln Street; Arey & Maddocks' Tannery; Coburn Shuttle Company, Ayer's City.

Box 35.—Stiles' grocery, Central Street; D. Benson, variety store, 70 Lawrence Street; L. W. Huntington, 48 Lawrence Street.

Box 36.—City Farm.

Box 37.—P. Lynch, 44 Whipple Street; B. Gray, 45 Whipple Street; Kerney & O'Donnell, provisions, 63 Whipple Street.

Box 38.—Fair Ground Building; Parker's coal office; Mollahan

- Brothers' coal office; J. G. Marshall, 451 Gorham Street; R. Stevens, 445 Gorham Street.
- Box 39.—City Stables; H. L. Haven's drug store; Arthur Staples, 39 Franklin Street; E. Murphy, 100 Fletcher Street.
- Box 41.—O. H. Moulton, 95 Nesmith Street; J. Howe, 48 Oak Street; C. J. Abbott, 18 Fairmount Street; W. Owen, 33 Oak Street.
- Box 42.—Davis & Sargent's Mill; H. C. Brothers' drug store; J. C. Bennett, Howard House; J. Baron, 344 Middlesex Street.
- Box 43.—G. E. Mitchell's plaster works; Horace J. Adams, 26 Highland Street; B. N. Webber, 14 Highland Street.
- Box 45.—Steamer House; C. E. Carter's drug store; 17 Branch Street; J. S. Bickford, 33 Branch Street.
- Box 46.—J. T. Donahue; B. W. Fullerton's drug store; Brock's drug store, Centralville; W. J. Powers, 66 Bridge Street.
- Box 47.—J. S. Ludlam; J. B. Francis; F. B. Shedd; H. H. Wilder; H. B. Coburn; Mrs. C. B. Richmond; all on Andover Street.
- Box 48.—W. T. Willis, 82 Dover Street; G. E. Evans, 87 Wilder Street; W. H. Smith, 58 Dover Street; D. C. Fields, 49 Grove Street; F. L. Morrill, corner Grove and Dover Streets; A. C. Russell, 90 Wilder Street; J. G. Buttrick, 100 Wilder Street.
- Box 51.—Suspender Mill; Ripley's Mill; J. Butler's Mill; Field's Drug Store; George Davis, 266 Gorham Street.
- Box 52.—E. B. Peirce, corner Austin and Merrimack Streets; H. B. Wheeler, 2 Austin Street; Albert Wheeler, 380 Merrimack Street.
- Box 53.—Crowell's drug store; F. H. Butler's store; Nichols & Fletcher's grocery.

- Box 54.—Gas Works; Flagman at Railroad; J. Clark's store house; Staples' Sewer Pipe office.
- Box 56.—Smith's Junk shop, Middle Street; Steamer 3's House, Middle Street.
- Box 57.—O. H. Perry, agent Middlesex Mills; two Watchmen of Middlesex Mills; O. Saunders, Superintendent Middlesex Mills; C. T. Shanahan, flagman B. & M. R. R.
- Box 61.—Greenwood Brothers, grocery; Wamesit Power Company; American Bolt Company; Sterling Mills; Scott Mills; Cartridge Company; Chase Mills; Faulkner's Mills; M. J. Keyes, 5 Agawam Street.
- Box 62.—Horse Railroad station; F. Taylor, 174 School Street; Mrs. C. H. Barker, 166 School Street; D. Goodhue, 163 School Street.
- Box 63.—W. R. Batchelder's stable; S. J. Gibby, 85 Hale Street; S. Greenwood, 53 Hale Street; J. S. Grush, 76 Hale Street; C. E. Jameson, 129 Grand Street; Horne's coal office; Railroad Shop; J. Brown, 102 Howard Street.
- Box 64. G. A. Gerry, 41 Third Street; N. A. Randlett, 45 Third Street; D. Sherwood, 25 Vernon Street.
- Box 65.—R. Tweed; Warburton Bros.; J. Carroll; H. Green, River Street.
- Box 67.—S. B. Hall; S. T. Smith; T. Boynton, Hildreth Street.
- Box 71.—Arlin Hotel; J. Damon, Postmaster; H. K. Ferrin, 821 Middlesex Street; Richardson Brothers' ice house; M. E. Graves, 74 Baldwin Street; S. P. Hadley, 954 Middlesex Street.
- Box 72.—P. H. Britton; St. Charles Hotel; Huntoon's stable; W. A. Ingham, grocer; C. F. Blanchard, 230 Middlesex Street; Faulkner's Mills.
- Box 73.—J. Besse; J. M. Wilson; T. Main; B. Morrison; Mammoth Street.

Box 74.—J. Ansart; T. Varnum; W. H. Hull; C. Varnum, Marshall Street.

Box 81.—I. K. Goodale, 53 Wilder Street; C. Temple, 43 West Pine Street; J. S. Eldridge, 4 Wilder Street; C. W. Richardson, Stevens Street; J. B. Stillings, 166 Liberty Street; H. L. Tibbetts, 279 Westford Street.

Box 82.—Dow's, Grand Street; I. O. Ramsdell's blacksmith shop; W. A. Favor, 65 Chelmsford Street.

Box 83.—J. Ash, 13 Powell Street; Stoughton's grocery; W. Clifford, 50 Powell Street; J. L. Robinson, 111 Powell Street; Shaw Hosiery.

Box 84.—F. Lovejoy, 84 Westford Street; A. B. Hall, 91 Westford Street; L. W. Godin, 4 Gates Street; C. S. Davis, 94 Westford Street.

Box 92.—A. Henderson, Nineteenth Street; George Flint, 375 Bridge Street; W. J. Pead, 1 Boynton Street; S. F. Pead, 316 Bridge Street; George T. Whitney, 309 Bridge Street.

Box 131.—Fuller's grocery; Miles grocery; Belvidere mills; Webster's drug store; Horse Railroad Stables.

In addition, the Board of Engineers, every Police Officer, and a large number of Citizens are furnished with keys to be carried in their pockets.

HYDRANTS IN CHARGE OF STEAMER NO. 1.

Gorham	Street, opposite School House.....	Flush
Gorham	“ corner Livingston Street.....	Flush
Gorham	“ opposite No. 395.....	Flush
Gorham	“ Fair Grounds.....	Flush
Gorham	“ opposite Butler's Mill.....	Flush
Gorham	“ opposite Lunberg Street	Post
Gorham	“ opposite Edson Cemetary.....	Post
Gorham	“ at City Line.....	Post
Frye	“	Post
Pihl	“ corner Fay.....	Post
Agawam	“ opposite No. 5.....	Flush
Agawam	“ opposite No. 31.....	Flush
Agawam	“ corner Griffin Street.....	Flush
Agawam	“ opposite School House.....	Flush
Carter	“ corner Gorham Street.....	Flush
Carter	“ opposite Livingston Street.....	Flush
Bleachery	“ opposite Carter Street.....	Flush
Bleachery	“ opposite No. 11.....	Flush
Bleachery	“ opposite Barn.....	Flush
Bleachery	“ opposite Soda House.....	Flush
Bleachery	“ opposite Shed.....	Flush
Bleachery	“ rear of Packing Room.....	Flush
Bleachery	“ opposite No. 37.....	Flush
Bleachery	“ corner Moore Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 1.—Continued.

Moore Street,	opposite No. 62.....	Flush
Moore “	opposite No. 92.....	Flush
Moore “	opposite Meadowcroft Street.....	Flush
Moore “	opposite S. Whipple.....	Flush
Moore “	opposite Andrews Street.....	Flush
Faulkner “	opposite Office.....	Flush
Lawrence “	opposite Faulkner Street.....	Flush
Lawrence “	opposite Dye Works.....	Post
Lawrence “	opposite Moore Street.....	Flush
Lawrence “	opposite Cemetery.....	Flush
S. Whipple “	corner Barrington Street.....	Flush
Andrews “	opposite No. 92.....	Flush
Andrews “	opposite No. 50.....	Post
Mead’cfrot “	opposite the Mill.....	Post
Cosgrove “	near Gorham Street.....	Post
Bolt “	opposite No. 27.....	Post
Jennings “	near Chelmsford Street.....	Post
Lincoln “	corner Gorham Street.....	Flush
Lincoln “	opposite No. 279.....	Flush
Lincoln “	opposite No. 247.....	Flush
Lincoln “	corner Quebec Street.....	Flush
Lincoln “	corner Main Street.....	Flush
Lincoln “	opposite No. 157.....	Flush
Lincoln “	corner Tanner Street.....	Flush
Lincoln “	opposite No, 62.....	Flush
Lincoln “	near the Square.....	Flush
Lincoln Square.....		Post
Manchester Street,	opposite No. 23.....	Post
Court “	near Manchester Street.....	Post
Blossom “	opposite No. 22.....	Flush
London “	opposite No. 56.....	Flush
London “	opposite No. 56.....	Flush
London “	opposite No. 161.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 1—Continued.

Main Street, corner Plain Street.....	Post
Marshall Road corner Plain Street.....	Post
Marshall “ opposite No. 38.....	Post
Chelmsford Street, opposite No. 254.....	Post
Chelmsford “ corner Parker Street.....	Post
Chelmsford “ corner Plain Street	Post
Chelmsford “ opposite No. 427.....	Post
Chelmsford “ opposite No. 545.....	Post
Chelmsford “ opposite City Farm.....	Post
Chelmsford “ corner Daly Street.....	Flush
Chelmsford “ corner Grand Street.....	Post
Chelmsford “ corner Howard Street.....	Flush
City Poor Farm, near Barn.....	Post
City Poor Farm, near Barn.....	Post
City Poor Farm, Insane Yard.....	Post
Washington Street, opposite No. 7.....	Post
Washington “ opposite No. 209.....	Post
Leverett “ opposite No. 32.....	Post
Cambridge “ opposite No. 45.....	Flush
Hale “ corner Cambridge Street.....	Flush
Hale “ opposite Grand Street.....	Flush
Hale “ corner Howard Street.....	Flush
Grand “ opposite Daly Street....	Flush
Tanner “ opposite Boiler Street.....	Post
Howard “ near Freight Office.....	Post
Howard “ opposite No. 133.....	Flush
Howard “ opposite Railroad Street.....	Flush
Railroad “ opposite No. 14.....	Flush
Railroad “ opposite No. 52.....	Flush
Livingston “ opposite No. 33.....	Flush
Thorndike “ corner Madison Street.....	Flush
Thorndike “ opposite Hale Street.....	Flush
Thorndike “ opposite Highland Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 1—Continued.

Thorndike	Street,	opposite	Appleton	Street.....	Flush
Robinson	"	opposite	No. 15.....	Flush	
Congress	"	opposite	No. 27.....	Flush	
Congress	"	corner	Thorndike	Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2.

Thorndike Street,	opposite Livingston's Mill.....	Flush
Howard	" opposite No. 19.....	Flush
Howard	" corner Westford Street.....	Flush
Grand	" opposite No. 54.....	Flush
Grand	" opposite Marshall Street.....	Flush
Grand	" corner Middlesex Street.....	Post
Canton	" oppotite No. 6.....	Flush
Marshall	" opposite No. 22.....	Flush
Marshall	" corner Gates Street.....	Flush
Gates	" opposite Gates' Residence.....	Flush
Royal	" opposite No. 23.....	Post
East Pine	" corner Carleton Street.....	Flush
East Pine	" opposite No. 28.....	Flush
Smith	" opposite No. 20.....	Flush
Smith	" corner Westford Street.....	Flush
Smith	" opposite Emerson's Residence.....	Flush
Smith	" Shaw Stocking Mill.....	Post
Smith	" opposite No. 112.....	Flush
Liberty	" corner Smith Street.....	Flush
Liberty	" opposite No. 33.....	Flush
Liberty	" corner Powell Street.....	Flush
Liberty	" opposite No. 124.....	Flush
Liberty	" corner Hastings Street.....	Flush
Barelay	" opposite No. 9	Post

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Shaw	Street,	corner Chelmsford Street.....	Post
Shaw	"	opposite Shaw Stocking Mill.....	Post
A.	"	.. .. .	Post
B.	"	.....	Post
C.	"	corner Pewell Street.....	Post
Powell	"	opposite No. 25.....	Post
Lane	"	corner Horne Street.....	Flush
Lane	"	opposite No. 15.....	Flush
School	"	opposite Burnham & Moran's.....	Flush
School	"	corner Grove Street.....	Flush
School	"	corner Westford Street.....	Flush
School	"	opposite No. 11.....	Flush
New School	"	near Mason Street.....	Post
Hastings	"	opposite No. 69.....	Post
S. Loring	"	opposite No. 27.....	Post
Coral	"	corner Westford Street.....	Flush
Coral	"	corner Grove Street.....	Flush
Loring	"	corner Branch Street... ..	Flush
Loring	"	corner Leroy Street.....	Flush
Ware	"	corner Ralph Street.....	Post
Grove	"	corner Loring Street.....	Flush
Walker	"	opposite No. 15.....	Flush
Walker	"	opposite No. 25.....	Flush
Walker	"	near Columbus Avenue.....	Flush
Walker	"	opposite Pevey's Mill.....	Flush
Westford	"	opposite No. 47.....	Flush
Westford	"	opposite No. 73.....	Flush
Westford	"	corner Gates Street.....	Flush
Westford	"	opposite No. 119.....	Post
Westford	"	opposite 164.....	Post
Westford	"	corner Loring Street.....	Flush
Westford	"	corner Wslker Street.....	Flush
Westford	"	corner Wilder Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Westford	"	opposite No. 333.....	Post
Westford	"	opposite Belmont Street.....	Post
Westford	"	opposite No. 483.....	Post
Belmont	"	near Westford Street.....	Post
Robbins	"	near Westford Street.....	Post
W. Pine	"	corner Robbins Street.....	Flush
W. Pine	"	corner Liberty Street.....	Flush
W. Pine	"	opposite No. 21.....	Flush
W. Adams	"	opposite No. 15.....	Post
Columbus Avenue, near Walker Street.....			Post
Wilder Street, opposite Marginal Street.....			Flush
Wilder	"	near Middlesex.....	Flush
Wilder	"	opposite Princeton.....	Flush
Wilder	"	near Westford.....	Post
Dover	"	opposite No. 90.....	Flush
Dover	"	opposite No. 63.....	Flush
Dover	"	opposite No. 26.....	Flush
Branch	"	opposite the Church.....	Post
Branch	"	corner Nichols Street.....	Flush
Branch	"	corner Smith Street.....	Flush
Branch	"	corner Queen Street.....	Flush
Branch	"	corner School Street.....	Flush
Branch	"	opposite No. 63.....	Flush
Branch	"	opposite No. 97.....	Flush
Branch	"	opposite No. 107.....	Flush
Branch	"	corner Dover Street.....	Flush
Marginal	"	corner Stevens Street.....	Post
Stevens	"	corner Middlesex Street.....	Flush
Stevens	"	200 feet south of Middlesex Street.....	Post
Stevens	"	500 feet south of Middlesex Street.....	Flush
Stevens	"	corner Princeton Street.....	Flush
Stevens	"	200 feet south of Westford Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Stevens	Street	corner West Pine Street.....	Flush
Stevens	"	opposite No. 209.....	Flush
Stevens	"	opposite No. 261.....	Post
Queen	"	opposite No. 15.....	Flush
Edson	"	near Princeton Street.....	Post
Middlesex	"	near Railrord Crossing.....	Flush
Middlesex	"	corner Howard Street.....	Flush
Middlesex	"	opposite Davis & Sargent's Mill	Flush
Middlesex	"	near corner McIntire Street.....	Post
Middlesex	"	corner Carleton Street.....	Post
Middlesex	"	near corner Branch Street.....	Flush
Middlesex	"	opposite Queen Street....	Flush
Middlesex	"	corner School Street.....	Flush
Middlesex	"	opposite No. 427.....	Flush
Middlesex	"	near driveway of Mrs. S. Spalding....	Flush
Middlesex	"	opposite vacant Lot.....	Flush
Middlesex	"	corner Walker.....	Flush
Middlesex	"	corner Wilder.....	Flush
Middlesex	"	opposite W. A. Ingham's.....	Flush
Middlesex	"	near Stevens Street.....	Flush
Middlesex	"	opposite No. 657.....	Flush
Middlesex	"	near driveway W. E. Livingston's.....	Post
Middlesex	"	near Richardson's Ice House.....	Post
Middlesex	"	opposite No. 816, Middlesex Village.....	Post
Middlesex	"	Middlesex Village.....	Post
Middlesex	"	opposite Middlesex House.....	Post
Middlesex	"	opposite No. 954.....	Post

HYDRANTS IN CHARGE OF STEAMER NO. 3.

Middle	Street, corner Shattuck.....	Flush
Middle	“ opposite No. 93.....	Flush
Middle	“ opposite No. 61.....	Flush
Middle	“ opposite No. 27.....	Flush
Middle	“ near Central Street.....	Flush
Market	“ opposite No. 35.....	Flush
Market	“ opposite No. 69.....	Flush
Market	“ opposite J. C. Ayer’s.....	Flush
Market	“ near Dutton Street.....	Flush
Market	“ corner Dummer Street.....	Flush
Market	“ opposite Jefferson Street.....	Flush
Ford	“ corner James Street.....	Flush
Ford	“ opposite No. 70.....	Flush
Ford	“ near corner Cabot Street.....	Flush
Dutton	“ opposite Mechanics’ Hall.....	Flush
Dutton	“ opposite No. 25.....	Flush
Dutton	“ opposite No. 31.....	Flush
Dutton	“ opposite No. 62.....	Flush
Dutton	“ opposite Machine Shop.....	Flush
Dutton	“ opposite Kitson’s.....	Flush
Dutton	“ opposite No. 11.....	Flush
Dutton	“ opposite Merrimac Counting Room.....	Flush
Dummer	“ corner Little Street.....	Flush
Little	“ near corner Lewis Street.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 3.—Continued.

Lewis	Street	near corner Jefferson Street.....	Flush
Lewis	"	near corner Market Street.....	Flush
Moody	"	corner Pawtucket Street.....	Flush
Moody	"	opposite No. 220.....	Flush
Moody	"	opposite No. 150.....	Flush
Moody	"	opposite No. 151.....	Flush
Moody	"	opposite No. 200.....	Flush
Moody	"	near corner Race Street.....	Flush
Dodge	"	corner Race Street.....	Flush
Central	"	corner Market Street.....	Flush
Central	"	corner Middle Street.....	Flush
Canal	"	near No. 36.....	Flush
Canal	"	opposite Massachusetts Counting Room..	Flush
Amory	"	opposite No. 25.....	Flush
Amory	"	opposite No. 55.....	Flush
Carpet	Lane,	opposite No. 4.....	Flush
French	Street,	opposite No. 47.....	Flush
French	"	corner Kirk Street.....	Flush
French	"	.....	Post
French	"	.....	Post
Bridge	"	.....	Post
Bridge	"	.....	Post
Bridge	"	.....	Post
Primer	"	opposite No. 103.....	Flush
Paige	"	corner John Street.....	Flush
Paige	"	opposite No. 76.....	Flush
Aiken	"	opposite No. 15.....	Flush
Kirk	"	corner Merrimaek Street.....	Flush
Kirk	"	corner Lee Street.....	Flush
Lee	"	opposite No. 8.....	Flush
John	"	opposite No. 6.....	Flush
Colburn	"	opposite No. 133.....	Flush
Anne	"	opposite Grist Mill.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 2—Continued.

Anne Street	opposite No. 25.....	Flush
Anne	“ opposite No. 13.....	Flush
Worthen	“ opposite Office.....	Flush
Worthen	“ opposite No. 48.....	Flush
Worthen	“ opposite No. 39.....	Flush
Worthen	“ corner Moody Street.....	Flush
Worthen	“	Flush
Worthen	“ corner Market Street.....	Flush
Tilden	“ corner Moody Street.....	Flush
Tilden	“ opposite No. 51.....	Flush
Tremont	“ opposite No. 19.....	Flush
Tremont	“ opposite No. 23.....	Flush
Tremont	“ opposite No. 62.....	Flush
Suffolk	“ corner Moody Street.....	Flush
Suffolk	“ corner Hall Street.....	Flush
Merrimack	Street, corner Anne Street.....	Flush
Merrimack	“ corner Moody Street.....	Flush
Merrimack	“ corner Worthen Street	Flush
Merrimack	“ opposite Maiden Lane.....	Flush
Merrimack	“ opposite Green School.....	Flush
Merrimack	“ opposite No. 24.....	Flush
Merrimack	“ corner Hanover Street.....	Flush
Merrimack	“ near Suffolk Street.....	Flush
Merrimack	“ opposite No. 348.....	Flush
Merrimack	“ corner Cabot Street.....	Flush
Merrimack	“ opposite No. 386.....	Flush
Merrimack	“ opposite No. 383.....	Flush
Merrimack	“ opposite No. 397.....	Flush
Merrimack	“ corner Pawtucket Street.....	Flush
Merrimack	“ opposite Post Office.....	Flush
Merrimack	“ corner Bridge Street.....	Flush
Merrimack	“ opposite John Street.....	Flush
Merrimack	“ opposite No. 81.....	Flush

HYDRANTS IN CHARGE OF STEAMER NO. 3—Continued.

Merrimack	Street	opposite No. 96.....	Flush
Hall	"	corner Aiken Street.....	Flush
Hall	"	near Suffolk Gate.....	Flush
Cabot	"	corner Hall Street.....	Flush
Cabot	"	opposite No. 14.....	Flush
Cabot	"	near Moody Street.....	Post
Cheever	"	corner Coolidge Street.....	Flush
Tucker	"	.....	Post
Pawtucket	"	near Harris Mill.....	Post

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 4.

East Merrimack	Street, near Concord River Bridge.....	Flush
East Merrimack	“ No 260.....	Post
East Merrimack	“ opposite Stackpole Street.....	Post
East Merrimack	“ opposite Park Street.....	Flush
East Merrimack	“ opposite No 148.....	Flush
East Merrimack	“ corner Alder Street.....	Flush
Davidson	“ opposite No. 29.....	Flush
Davidson	“ L. H. R. R. Stable.....	Flush
Howe	“ near Stott's Mills.....	Flush
Howe	“ corner East Merrimack Street...	Flush
Stackpole	“ Twine Mills.....	Flush
Stackpole	“ opposite Livermore Street.....	Flush
Stackpole	“ opposite No. 116.....	Flush
Stackpole	“ opposite No. 146.....	Flush
Stackpole	“ opposite Alder Street.....	Post
Stackpole	“ opposite No. 172.....	Post
High Street	Square, corner E. Merrimack Street... ..	Flush
Bartlett. Street,	opposite No. 22.....	Flush
Bartlett	“ opposite No. 52.....	Flush
Ash	“ near corner E Merrimack Street.....	Flush
Chestnut	“ opposite No. 37.....	Flush
Chestnut	“ opposite No. 65.....	Flush
Nesmith	“ near corner Chestnut Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 4.—Continued.

Nesmith	Street	opposite No. 41.....	Flush
Nesmith	"	opposite No. 61.....	Flush
Nesmith	"	corner Wyman Street.....	Flush
Nesmith	"	opposite Mansur Street.....	Flush
Nesmith	"	near Burke's Driveway.....	Flush
Nesmith	"	near Judge Crosby's.....	Flush
Nesmith	"	near O. H. Perry's.....	Flush
Park	"	opposite T. Nesmith.....	Post
Andover	"	opposite No. 280.....	Flush
Andover	"	opposite No. 252.....	Flush
Andover	"	opposite No. 228.....	Flush
Andover	"	near Box 47.....	Flush
Andover	"	near J. S. Ludlam's.....	Flush
Andover	"	opposite driveway of No. 140.....	Flush
Andover	"	opposite Park Street.....	Flush
Andover	"	corner Harrison Street.....	Flush
Fairmount	"	near corner Nesmith Street.....	Post
Fairmount	"	opposite Sheppard's Garden.....	Post
Fairmount	"	near Butter's Driveway.....	Post
Fairmount	"	opposite No. 181.....	Post
Fairmount	"	opposite Belmont Avenue.....	Post
Fairmount	"	near No. 127.....	Post
Fairmount	"	opposite Reservoir.....	Post
Fairmount	"	opposite No. 181.....	Post
Fairmount	"	opposite No. 46.....	Post
Fairmount	"	opposite No. 18.....	Post
Fairview	"	opposite D. C. Brown's.....	Post
Talbot	"	corner Belmont Avenue.....	Post
Mansur	"	opposite Levi Sprague's.....	Post
Mansur	"	opposite T. G. Tweed's.....	Post
Warren	"	near Office Middlesex Mills.....	Flush
Warren	"	near Gate No. 3.....	Flush
Hurd	"	corner Central Street.....	Flush

Schedule of Fires which Occurred in the City of Lowell During the Year Ending March 31, 1886.

Date.	Time.	Signal.	Location.	Material.	Loss.	Owned by	Occupied by	Occupied as	Damage.	Insurance.	Ins. Paid.	Cause of Fires.	Remarks.
1885.													
April 2,	1.20 a.m.	131	Wall St.	Wood,	Total,	T. Mooney,	T. Mooney,	Stable,	\$1,300 00	\$1,000 00	\$1,300 00	Incendiary,	
" 2,	1.20 a.m.	"	Wall St.	"	Partial,	J. U. Gage,	Several families,	Tenement,	71 75	1,500 00	71 75	"	
" 6,	4 p.m.	Tel.	Pawtucket St.	"	"	Lowell Felting Co.	Lowell Felting Co.	Felting Mills,				"	
" 11,	4.05 p.m.	53	Middlesex St.	Brick,	"	J. C. Glidden,	Several parties.	Stores and rooms,	1,500 00	25,000 00	1,500 00	Unknown,	
" 11,	4.05 p.m.	"	Middlesex St.	"	"	"	H. Murphy,	Room,	100 00	700 00	100 00	"	
" 11,	4.05 p.m.	"	Middlesex St.	"	"	"	A. C. Stevens,	Store,	9 00	12,000 00	9 00	"	
" 15,	3.25 p.m.	71	Middlesex St.	"	"	"	"	"				"	
" 19,	5.07 p.m.	34	Ayer's City,	Wood,	"	J. Sherburne,	Several parties,	Elevator etc.	1,663 00	8,000 00	1,663 00	Needless, Gras burn-	
" 22,	8.15 a.m.	5	Western av.	"	"	"	O. D. Wilder,	Grist Mill,	43 55	2,000 00	43 55	Shavings, caught	
" 22,	8.15 a.m.	5	Western Av.	"	"	"	Felting Co.	"	60 00	3,000 00	60 00	[from boiler,	
" 22,	8.15 a.m.	5	Western Av.	"	"	"	A. Batchelder,	Doors and Sash,	1,463 00	2,000 00	1,463 00	"	
" 22,	8.15 a.m.	5	Western Av.	"	"	"	C. P. Talbot & Co.	Chemicals,				"	
" 23,	2 a.m.	Still.	Market St.	Brick,	"	City of Lowell,	Unoccupied,	"				Carboy of Vitrol,	Protective responded.
" 24,	8.20 p.m.	27	Second Av.	Wood,	"	G. P. Walker,	"	"				Incendiary,	
" 24,	9.35 p.m.	27	Second Av.	"	"	"	"	"				"	
" 25,	2 a.m.	65	River St.	"	"	A. Barney,	B. Ernest,	Smoking Fish,	260 00	350 00	260 00	Unknown,	
" 25,	4 p.m.	Still.	Ayer's City.	"	"	"	"	Brush,				Hose 9 responded.	
May 3,	6.20 a.m.	24	r. Middlesex St.	Wood,	Partial,	W. H. Anderson.	G. Foster,	Store house,	500 00	1,100 00	500 00	Combustion,	
" 3,	6.20 a.m.	24	r. Middlesex St.	"	"	"	F. E. Burr,	"	25 00	700 00	25 00	"	
" 5,	1.55 a.m.	42	Middlesex Pl.	Brick,	"	Mrs. M. D. Holt,	Several families,	Tenement,	20 00	1,500 00	20 00	Defective Flue,	
" 9,	8.55 a.m.	23	Coburn St.	Wood,	"	M. Fox,	"	"				Steam from wet roof,	
" 13,	12.15 a.m.	Tel.	Central St.	Brick,	"	Carleton Heirs,	F. Harris,	Hotel,	16 75	5,000 00	1,675 00	Explosion of Kero-	
" 13,	12.15 a.m.	Tel.	Central St.	"	"	"	"	"	95 00	1,500 00	95 00	" [sene oil lamp,	
" 15,	8.05 a.m.	5	Rock St.	Wood,	"	J. Hanchette,	J. Hanchette,	Boarding house,	635 62	6,200 00	635 62	Unknown	
" 27,	12.40 a.m.	Still.	Middlesex St.	"	"	Davis & Sargent,	Davis & Sargent,	Lumber Mill				Sparks from ch'y,	Steamer 2' responded.
June 5,	7.35 p.m.	25	Merrimack St.	Wood.	"	Dr. G. Kimball,	M. C. Brouillette,	Fancy goods,	72 50	6,000 00	72 50	From jet in window,	
" 5,	7.35 p.m.	25	Merrimack St.	"	"	"	"	"	325 00	500 00	325 00	"	
" 8,	11.50 a.m.	Still.	Western Av.	"	"	"	Webster and Perkins,	Blacksmith,				Sparks from chim-	Hose 7 responded.
" 9,	10 p.m.	Tel.	Queen St.	"	"	H. Johnson,	A. C. Stone,	Tenement,				Clothing set fire by	
" 12,	4.45 p.m.	"	Second Av.	Woods,	"	G. P. Walker,	Unoccupied,	"				Incendiary, [gas jet,	Pér. Men responded.
" 14,	1.10 p.m.	Still.	r. Stevens St.	Wood.	"	Heirs of L. W. Jenness,	"	"	93 00	600 00	93 00	"	
" 18,	6 p.m.	Tel.	Second Av.	"	"	G. P. Walker,	"	"				"	
" 19,	11 a.m.	Still.	Marshall St.	"	"	M. Mills,	"	Tenement				Sparks set roof,	
" 20,	3.45 p.m.	"	Adams St.	"	"	J. Bassett,	"	Tenements,				Defective Chimney,	Chemical responded.
" 21,	9.40 p.m.	28	Cheever St.	"	"	Locks & Canals,	"	Canal Boat,				Incendiary,	
" 23,	3.02 p.m.	28	Aiken St.	"	"	"	"	Tenement,				Unknwn fire in bed,	
" 25,	9.30 p.m.	Still.	Middlesex St.	"	"	Morrison,	French Families,	Tenements,				Straw,	Steam

Schedule of Fires which Occurred in the City of Lowell During the Year Ending March 31, 1886.

Date.	Time.	Signal.	Location.	Material.	Loss.	Owned by	Occupied by	Occupied as	Damage.	Insurance.	Ins. Paid.	Cause of Fires.	Remarks.
1885.													
Dec. 28,	6.45 p.m.	Still.	Cady St.	Wood,	Partial.	H. L. Williams,		Tenement					
" 30,	9.05 p.m.	74	Varnum Ave.	"	"	Mrs. A. C. Burnham,		House and Barn,	559 00	1,300 00	559 00	Incendiary,	
" 30,	9.05 p.m.	74	Varnum Ave.	"	"	"	C Butters,		340 00	340 00	340 00		
1886.													
Jan. 3,	12.03 a.m.	71	West Pine St.	"	"	G. McIntire,	Unoccupied,	Tenement,				Incendiary,	
" 8,	9.55 a.m.	6	Market St.	"	"	"	Donovan Bros.	Market,				Stove pipe set par't,	
" 8,	2.15 p.m.	Still.	Middlesex St.	Brick,	"	McCarty,	T. F. Handley,	Awning Maker,				Wood, fire from st'e	Steamer 3 responded.
" 10,	9.55 p.m.	5	Western Av.	"	"	B. & L. Railroad,	S. K. Dexter,	Potato Car,				Defective Oil Stove	
" 13,	2.45 p.m.	Still.	Chapel St.	Wood,	"	J. Quinn,	J. Quinn,	Tenement,				Cloth caught from	Hose 6 responded.
" 14,	1 p.m.	"	Suffolk St.	"	"	"	"	"				Chimney, [stove,	Chemical Co. responded.
" 14,	6.15 p.m.	Tel.	Kinsman St.	"	"	"	"	"				"	
" 15,	3 p.m.	Still.	Prescott St.	Brick,	"	Southwick Heirs,		Unoccupied,				Chimney set shea'ng	
" 25,	10.05 a.m.	28	Tucker St.	Wood,	"	Gaudette Bros,	Several families,	Tenements,	647 00	4,000 00	647 00	Stove set partition,	
" 27,	5.40 p.m.	25	Market St.	"	"	R. G. Bartlett,		"				Chimney,	
" 28,	6.05 p.m.	21	Merrimack St.	Brick.	"	Odd Fellows Asso'n,	J. L. Loisells,	Dry Goods,	150 00	9,000 00	150 00	Unknown,	
Feb. 3,	2.55 p.m.	61	Agawam St.	Wood,	"	T. Sullivan,		Tenement,	35 00	1,500 00	35 00	Thawing water pipe	Steamer & H. 2, & 6 res
" 10,	11.50 p.m.	Tel.	N. Chelmsford.	"	"	"						[with paper,	
" 17,	12.45 a.m.	39	Noble's Court.	"	"	C. Noble,	Unoccupied,		200 00	600 00	200 00	Incendiary,	
" 17,	1.45 p.m.	53	Appleton St.	Brick,	"	C. Runels,	S. Smith,	Tenements,				Supposed Incendi'y,	
" 27,	2.40 p.m.	83	Smith St.	Wood,	"	John Howe,		Tene't and Store,	425 00	2,000 00	425 00	Defective Chimney,	
" 27,	2.40 p.m.	83	Smith St.	"	"	"	Mrs. Roarke,	Tenement,	272 30	800 00	272 30	Defective Chimney,	
" 27,	2.40 p.m.	83	Smith St.	"	"	"	Smart & Frost,	Grocery Store,	75 00	1,825 00	75 00	Defective chimney,	
" 27,	7 p.m.	Tel.	Market St.	"	"	J. Bassett,	Several Families,	Tenements,				Chimney,	
" 27,	9.45 p.m.	"	River St.	"	"	J. Clark,	"	"				Chimney,	
" 28,	6.40 p.m.	"	E. Mer'k St.	"	"	D. A. Swan,	D. A. Swan,	Tenement,				Match in Shavings,	
" 28,	8.50 p.m.	21	Merrimack St.	Brick,	"	Heirs of J. Robbins,		Store and Office,	250 90	8,000 00	250 90	Unknown,	
" 28,	8.50 p.m.	21	Merrimack St.	"	"	"	C. H. Bixby & Co.,	Dry Goods,	2,775 00	10,000 00	2,775 00		
" 28,	8.50 p.m.	21	Merrimack St.	"	"	"	J. W. Cassidy,	"	1,500 00	6,000 00	1,500 00		
" 28,	8.50 p.m.	21	Merrimack St.	"	"	"	G. Thatcher,	Clock Repairer	50 00	600 00	50 00		
" 28,	9.40 p.m.	63	Howard St.	Wood.	"	S. C. Eaton,	S. C. Eaton,	Tenement,	499 50	2,800 00	499 50	Steam Pipe,	
Mar. 1,	10.50 p.m.	53	Hurd St.	Brick,	"	P. Dempsey,	M. J. Hennessey,	Plumber,	12 26	1,000 00	12 26	Combustion,	
" 6,	2.20 a.m.	37	Whipple St.	Wood.	"	J. Monahan,	M. Stackpole,	Tenement,	150 00	1,200 00	150 00	"	
" 6,	11.50 a.m.	131	Davidson St.	"	"	P. Fay,	Mrs. McCabe,	"	8 00	1,000 00	8 00	"	
" 14,	2.07 p.m.	131	Cut Alley.	"	"	Mrs. McManus,	Several Families,					Rags on Floor,	
" 15,	4.10 p.m.	39	Willie St.	"	"	P. Lynch,		Carriage Manu'y,	40 00			Sparks set roof,	
" 31,	7.55 a.m.	Tel.	Middlesex St.	"	"	Saunders,	Unoccupied,					Old Boiler,	

Loss \$19,653.08.

Insurance, \$155,015.00.

Insurance Paid, \$18,763.08.

Loss Above Insurance, \$890.00.

HYDRANTS IN CHARGE OF HOSE CO. NO. 4—Continued.

Hurd	"	near Methodist Church.....	Flush
Prescott	"	front Cotton House.....	Flush
William	"	corner Central Street.....	Flush
William	"	opposite No. 22.....	Flush
George	"	opposite William Street.....	Flush
Green	"	near No. 23.....	Flush
Church	"	corner Central Street.....	Flush
Church	"	opposite No. 19.....	Flush
Church	"	opposite Church.....	Flush
Church	"	opposite No. 67.....	Flush
Water	"	opposite No. 12.....	Flush
Water	"	corner Pond Street....	Flush
Water	"	opposite No. 57.....	Flush
Concord	"	corner Roger's Street.....	Post
Pleasant	"	corner Pond Street.....	Flush
High	"	opposite Oak Street.....	Flush
High	"	near corner Andover Street.....	Flush
High	"	opposite No. 84.....	Flush
High	"	opposite No. 54.....	Flush
Clay	"	corner Oak Street.....	Flush
Clay	"	near corner Andover Street.....	Flush
Harrison	"	opposite No. 19.....	Flush
Harrison	"	corner Porter Street.....	Post
Harrison	"	corner Rogers' Street.....	Post
Oak	"	opposite No. 39.....	Flush
Fayette	"	opposite No. 31.....	Flush
Fayette	"	opposite No. 64.....	Flush
Fayette	"	opposite No. 88.....	Flush
Fayette	"	opposite No. 112.....	Flush
East Merrimack Street, near Shedd's Barn.....			Post

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 5.

Front Street,	opposite No. 47.....	Post
River	“ opposite Front Street.....	Flush
River	“ opposite No. 60.....	Flush
River	“ opposite No. 45.....	Flush
River	“ opposite No. 122.....	Flush
River	“ City Line.....	Post
River	“ opposite No. 139.....	Flush
River	“ opposite 185.....	Flush
River	“ opposite No. 257.....	Flush
River	“ opposite No. 259.....	Post
River	“ opposite No. 325.....	Post
River	“ opposite No. 451.....	Post
Boynton	“	Post
Lilly Avenue,	near River Street.....	Post
Lilly	“ corner Cumberland Street	Post
Bye Street,	opposite No. 7.....	Post
Hildreth Street,	corner Boynton Street.....	Post
Hildreth	“ opposite No. 141.....	Flush
Hildreth	“ near New Street.....	Flush
Hildreth	“ corner Jewett Street.....	Flush
Hildreth	“ opposite No. 23.....	Flush
Hampshire	“ opposite No. 57.....	Flush
Hampshire	“ opposite No. 39.....	Flush
Hampshire	“ Hampshire Place.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 5—Continued.

W. Sixth	Street opposite No. 14.....	Flush
W. Sixth	“ Pumping Station.....	Flush
W. Sixth	“ corner Jewett Street.....	Flush
W. Sixth	“ corner Coburn Street.....	Flush
West	“ corner W. Sixth Street.....	Post
Fulton	“ opposite No. 83.....	Post
Fulton	“ opposite No. 48.....	Post
Fulton	“ opposite No. 12.....	Post
Coburn	“ opposite No. 22... ..	Flush
Coburn	“ opposite No. 119.....	Flush
Jewett	“ opposite No. 98.....	Post
Jewett	“ opposite No. 71.....	Post
W. Third	“ near Blacksmith’s.....	Post
W. Fourth	“ near Green House.....	Flush
W. Fourth	“ corner Albion Street.....	Flush
Albion	“ corner W. Fifth Street.....	Flush
Shedd	“ opposite No. 7.....	Flush
Harrison Avenue,	opposite No. 5.....	Post
Boynton Street,	near Bridge Street.....	Post
Bridge	“ opposite No. 69.....	Flush
Bridge	“ opposite No. 83.....	Flush
Bridge	“ corner Fourth Street.....	Flush
Bridge	“ corner Fifth Street.....	Flush
Bridge	“ Wire Works.....	Flush
Bridge	“ opposite No. 165.....	Flush
Bridge	“ corner Tenth Street.....	Flush
Bridge	“ corner Twelfth Street.....	Flush
Bridge	“ corner Thirteenth Street.....	Flush
Bridge	“ corner Nineteenth Street.....	Post
Bridge	“ opposite No. 375.....	Post
May	“	Post
First	“ opposite No. 20.....	Flush
First	“ opposite No. 45.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 5.—Continued.

First	Street	opposite No. 74.....	Flush
First	"	opposite No. 98.....	Flush
Simpson	"	opposite No. 23.....	Flush
Durant	"	opposite No. 55.....	Flush
Durant	"	opposite No. 97.....	Flush
Vernon	"	corner Richardson Street.....	Flush
Vernon	"	corner Bennett Street.....	Flush
Sixth	"	opposite No. 105.....	Flush
Sixth	"	corner Beach Street.....	Flush
Sixth	"	corner Read Street.....	Fulsh
Sixth	"	opposite No. 41.....	Flush
Fremont	"	opposite No. 63.....	Post
Fremont	"	opposite No. 23.....	Post
Fhird	"	opposite No. 86.....	Post
Third	"	corner Beach Street.....	Flush
Third	"	opposite No. 48.....	Flush
Third	"	corner Read Street.....	Flush
Third	"	opposite No. 14.....	Flush
Beach	"	opposite No. 29.....	Flush
Beach	"	opposite No. 55.....	Flush
Myrtle	"	opposite No. 48.....	Flush
Myrtle	"	corner Sixth Street.....	Flush
Myrtle	"	corner Fourth Street.....	Flush
Fourth	"	opposite No. 29.....	Flush
Fourth	"	opposite No. 45.....	Flush
Fifth	"	opposite No. 22.....	Flush
Fifth	"	opposite No. 38.....	Flush
Tenth	"	opposite Myrtle Street.....	Flush
Tenth	"	opposite No. 48.....	Flush
Tenth	"	opposite No. 60.....	Post
Tenth	"	opposite No. 70.....	Post
Tenth	"	opposite Christian Street.....	Post
Tenth	"	corner Reservoir Street.....	Post

HYDRANTS IN CHARGE OF HOSE CO. NO. 5—Continued.

Tenth Street	corner Methuen Street.....	Flush
Seventh "	opposite Methuen Street.....	Flush
Nineteenth "	corner Bridge Street.....	Post
Bennett "	corner Beacon Street.....	Flush
Second "	opposite No. 24.....	Flush
Beacon "	opposite No. 81.....	Post
Beacon "	corner Third Street.....	Post
Beacon "	corner Sixth Street.....	Post
Beacon "	opposite Reservoir.....	Post
Beacon "	opposite Tenth Street.....	Post
Beacon "	opposite No. 351.....	Post
Beacon "	opposite No. 400.....	Post
Beacon "	opposite No. 462.....	Post
Ludlam "	.....	Post
Eleventh "	corner Beacon Street.....	Flush
Eleventh "	opposite No. 17.....	Flush
Methuen "	opposite June Street.....	Post
Methuen "	corner Eleventh Street.....	Flush
Methuen "	opposite No. 96.....	Flush
Thirteenth "	corner June Street.....	Flush
Ludlam "	between Hildreth & Bridge Streets.....	Post
Wachusett "	opposite No. 9.....	Post
Methuen "	opposite Humphry Street.....	Post
Humphry "	.....	Post
Sutherland "	.....	Post

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 6.

Middlesex	Street, No. 24.....	Flush
Middlesex	“ corner Elliott Street.....	Flush
Middlesex	“ corner South Street.....	Flush
Middlesex	“ corner Gorham Street.....	Flush
Middlesex	“ corner Pearl Street.....	Flush
Middlesex	“ corner Garnet Street.....	Post
Middlesex	“ corner Gorham Street.....	Post
Middlesex	“ opposite No. 76.....	Post
Middlesex	“ opposite Thorndike Street.....	Flush
Central	“ corner Charles Street.....	Flush
Central	“ opposite Tyler Street.....	Flush
Central	“ corner Union Street.....	Flush
Central	“ opposite North Street.....	Flush
Central	“ Towers' Corner.....	Flush
Central	“ corner Centre Street.....	Flush
Central	“ corner Cady Street.....	Flush
Central	“ corner Elm Street	Flush
Central	“ corner No. 325.....	Flush
Central	“ near corner Gorham Street.....	Flush
Central	“ opposite Crosby Street.....	Flush
Central	“ corner Walnut Street.....	Flush
Central	“ corner Chapel Street.....	Flush
Central	“ front School House.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 6—Continued.

Tyler	Street	opposite No. 18.....	Flush
Tyler	"	opposite No. 35.....	Flush
Tyler	"	corner Lawrence Street.....	Flush
Lawrence	"	opposite Charles Street.....	Flush
Lawrence	"	opposite Stott's Mills.....	Flush
Lawrence	"	opposite Newhall Street.....	Flush
Lawrence	"	front No. 200.....	Flush
Sterling Mills, in	Yard.....		Post
Lawrence	Street,	opposite No. 136.....	Flush
Lawrence	"	opposite Laundry.....	Flush
Mill	"	opposite No. 11.....	Post
Chambers	"	opposite No. 10.....	Post
Whipple	"	corner Mead Street.....	Flush
Mead	"	corner Floyd Street.....	Flush
Kinsman	"	opposite Floyd Street.....	Post
Pine Hill	"	opposite Chambers Street.....	Post
Kidder	"	front No. 20.....	Flush
Prospect	"	Upper End.....	Flush
Chambers	"	corner Newhall Street.....	Post
Ames	"	opposite No. 11.....	Flush
Newhall	"	opposite Crosby Street.....	Flush
Watson	"	corner Whipple Street.....	Flush
Crosby	"	front No. 19.....	Flush
Crosby	"	opposite New Street.....	Flush
Crosby	"	opposite No. 86.....	Flush
Chapel	"	corner Union Street.....	Flush
Chapel	"	opposite No. 61.....	Flush
Chapel	"	opposite No. 41.....	Flush
Ohapel	"	opposite School House.....	Flush
Chapel	"	front No. 119.....	Flush
Chapel	"	front No. 79.....	Flush
Jackson	"	corner Central Street.....	Flush
Jackson	"	opposite No. 38.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 6.—Continued.

Jackson	Street	opposite No. 19.....	Flush
Jackson	"	opposite Hamilton Office.....	Flush
Jackson	"	opposite Appleton Mill.....	Flush
Jackson	"	corner Middlesex Street.....	Flush
Jackson	"	first Coal Shed.....	Flush
Appleton	"	opposite No. 129.....	Flush
Appleton	"	corner Pearl Street.....	Flush
Appleton	"	corner Eliot Street.....	Flush
Union	"	corner Linden Street.....	Flush
W. Union	"	No. 56.....	Flush
Highland	"	opposite No. 48.....	Flush
Cady	"	opposite No. 14.....	Flush
Linden	"	near Church.....	Flush
Linden	"	near Court House.....	Flush
Linden	"	corner Auburn Street.....	Flush
North	"	opposite No. 24.....	Flush
North	"	corner Lawrence Street.....	Flush
Elm	"	opposite Court House.....	Flush
Elm	"	opposite No. 37.....	Flush
Elm	"	opposite No. 15.....	Flush
Cedar	"	opposite No. 30.....	Flush
Cedar	"	corner Keene Street.....	Post
Kinsman	"	corner Crosby Street.....	Post
Charles	"	opposite No. 22.....	Post
Charles	"	opposite No. 76.....	Post
Charles	"	opposite No. 50.....	Post
Lyon	"	opposite No. 20.....	Post
Appleton	"	front St. Peter's Church.....	Flush
Winter	"	corner Davis Street.....	Flush
South	"	corner Appleton Street.....	Flush
South	"	corner Union Street.....	Flush
South	"	opposite No. 112... ..	Flush
Gorham	"	corner Locke Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 6—Continued.

Gorham	"	opposite Tower's Corner.....	Flush
Gorham	"	corner South Street.....	Flush
Gorham	"	opposite No. 181.....	Flush
Gorham	"	opposite Winter Street.....	Flush
Gorham	"	opposite No. 219.....	Flush
Gorham	"	opposite Pipe Yard.....	Flush
Walnut	"	opposite No. 45.....	Flush
Walnut	"	opposite No. 17.....	Flush
Keene	"	opposite No. 26.....	Flush
Madison	"	corner Burns Street.....	Flush
S. Highland	"	near corner Burns Street.....	Flush
Summer	"	opposite No. 35.....	Flush
Summer	"	corner Gorham Street.....	Flush
Summer	"	corner South Street.....	Flush
Summer	"	opposite No. 79.....	Flush
Summer	"	opposite Favor Street.....	Flush
Summer	"	corner Thorndike Street.....	Flush
Wamesit	"	opposite No. 18.....	Flush
Wamesit	"	corner Lawrence Street.....	Flush
Abbott	"	No. 24.....	Flush
Taylor	"	corner Merrill Street.....	Flush

HYDRANTS IN CHARGE OF HOSE COMPANY NO. 7.

Pawtucket	Street, corner Mt. Vernon Street.....	Flush
Pawtucket	“ corner Arlington Street.....	Flush
Pawtucket	“ corner Wannalancit Street.....	Flush
Pawtucket	“ opposite No. 160.....	Flush
Pawtucket	“ opposite Walker.....	Flush
Pawtucket	“ opposite Ice House.....	Flush
Walker	“ opposite No. 128.....	Flush
Walker	“ opposite No. 118.....	Flush
Walker	“ opposite No. 106.....	Flush
Walker	“ corner Broadway.....	Flush
Walker	“ corner Waugh Street.....	Flush
Wilder	“ opposite Waugh Street.....	Flush
Wilder	“ corner Broadway.....	Post
Wilder	“ opposite No. 180.....	Post
Phillips	“ corner Mason Street.....	Post
Varnum	Avenue, opposite Fay's House.....	Post
Varnum	“ opposite R. Park's.....	Post
Varnum	“ opposite Gate House.....	Post
Varnum	“ opposite Dam.....	Post
Varnum	“ opposite G. W. Coburn's.....	Post
Varnum	“ opposite No. 18.....	Post
Riverside	“ near Marshall's Residence.....	Post
Riverside	“ corner Mt. Hope.....	Post
Riverside	“ front J. Gage's Residence.....	Post

HYDRANTS IN CHARGE OF HOSE CO. NO. 7—Continued.

Riverside Street,	front J. Parnell's Residence.....	Post
Riverside	“ front Squash House.....	Post
Riverside	“ front Emery's Barn.....	Post
Mt. Hope	“ near Riverside.....	Post
Broadway	“ opposite No. 349.....	Flush
Broadway	“ opposite No. 252.....	Flush
Broadway	“ corner School Street.....	Flush
Broadway	“ opposite No. 285.....	Flush
Broadway	“ opposite No. 343.....	Flush
Broadway	“ corner Willie Street.....	Flush
Wannalancit	“ opposite No. 118.....	Flush
Wannalancit	“ opposite Castle.....	Flush
Suffolk	“ opposite No. 22.....	Flush
Suffolk	“ opposite Lagrange Street.....	Flush
Suffolk	“ corner Fenwick Street.....	Flush
Cabot	“ corner Market Street.....	Flush
Cross	“ corner Marion Street.....	Flush
Cross	“ corner Suffolk Street.....	Flush
Cross	“ opposite No. 115.....	Flush
Cross .	“ opposite Mt. Vernon Street.....	Flush
Cross	“ opposite No. 148.....	Flush
Fenwick	“ near Church.....	Flush
Fenwick	“ opposite No. 65.....	Flush
Salem	“ opposite No. 224.....	Flush
Salem	“ opposite Willie Avenue.....	Flush
Salem	“ opposite No. 69.....	Flush
Salem	“ opposite Whitney Street.....	Flush
Salem	“ opposite Dane Street.....	Flush
Clark	“ corner Willie Avenue.....	Flush
Arlington	“ opposite No. 11.....	Flush
Bowers	“ opposite No. 33.....	Post
Pawtucket	“ near Fletcher Street.....	Flush
Pawtucket	“ corner School Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 7.—Continued.

Pawtucket Street,	corner Mt. Washington Street.....	Flush
Fletcher	“ opposite Lagrange Street.....	Flush
Fletcher	“ corner Lagrange Street.....	Flush
Fletcher	“ corner Dutton Street.....	Flush
Fletcher	“ corner Clark Street.....	Flush
Fletcher	“ corner Dane Street.....	Flush
Fletcher	“ opposite Butterfield Street.....	Flush
Fletcher	“ opposite Varney Street.....	Flush
Dutton	“ opposite Brooks' Mills.	Flush
Dutton	“ opposite L. C. Hall's.....	Flush
Dutton	“ corner Willie Street.....	Flush
Dutton	“ opposite Cider Mill....	Flush
Oliver	“ corner Wannalancit Street.....	Flush
Western Avenue,	opposite Elevator.....	Flush
Western	“ opposite Whitney & Tibbets'.....	Post
Western	“ opposite Freight Depot.....	Flush
Willie	“ opposite end Cushing Street.....	Flush
Willie	“ corner Franklin Street.....	Flush
Willie	“ corner Cross Street.....	Flush
Cushing	“ opposite No. 72.....	Post
Cushing	“ opposite No. 57.....	Post
Cushing Street,	opposite No. 47.....	Post
Cushing	“ opposite No. 33.....	Post
Cushing	“ near Liberty Square.....	Post
Rock	“ opposite No. 36.....	Flush
Rock	“ opposite No, 57.....	Flush
Rock	“ corner Mt. Vernon Street.....	Flush
Broadway	“ corner Fletcher Street.....	Flush
Broadway	“ opposite No. 57.....	Flush
Broadway	“ corner Rolfe Street.....	Flush
Fourth Avenue,	opposite Mt. Hope Street.....	Flush
Mammoth Road,	opposite City Line.....	Flush
Mammoth	“ opposite Blacksmith Shop.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 7—Continued.

Mammoth Road,	opposite Chase Avenue.....	Flush
Mammoth “	opposite Seventh Avenue.....	Flush
Mammoth “	opposite J. C. Tolman's.....	Flush
Mammoth “	opposite I. M. Chase's.....	Flush
Mammoth “	opposite Fourth Avenue.....	Flush
Mammoth “	corner Second Avenue.....	Flush
Mammoth “	corner Riverside Street.....	Flush
Chase Village	.....	Flush
Second Avenue,	No. 3.....	Flush
Adams Street,	No. 63.....	Post
Adams “	opposite No. 30.....	Post
Adams “	corner Lagrange Street.....	Post
Adams “	corner Suffolk Street.....	Flush
Adams “	corner Salem Street.....	Flush
Adams “	opposite No. 150.....	Flush
Adams “	opposite No. 117.....	Flush
Adams “	front of Sister's.....	Flush
Adams “	corner Cross Street.....	Flush
Adams “	corner Broadway.....	Flush
Common “	corner Cross Street.....	Flush
Common “	opposite No. 25.....	Flush
Common “	opposite No. 57.....	Flush
Common “	opposite Castle's Square.....	Flush
Franklin “	opposite No. 15.....	Flush
Mt. Vernon Street,	corner Broadway.....	Flush
Mt. Vernon “	corner Hosiery.....	Flush
Mt. Vernon “	opposite No. 65.....	Flush
Mt. Vernon “	corner Bowers Street.....	Flush
Mt. Washington Street,	opposite No. 35.....	Flush
Mt. Washington “	corner Bowers Street.....	Flush
Mt. Washington “	opposite No. 18.....	Post
Staples Street,	opposite Franklin Court.....	Flush
Varney “	corner Mt. Washington Street.....	Flush

HYDRANTS IN CHARGE OF HOSE CO. NO. 7.—Continued

Varney	"	corner Mt. Vernon Street.....	Flush
Varney	"	opposite No. 38.....	Flush
School	"	corner Perrin Street.....	Flush
School	"	opposite No. 171.....	Flush
School	"	opposite No. 167.....	Flush
School	"	opposite Lombard Street.....	Flush
School	"	corner Oliver Street.....	Flush
School	"	near corner Butterfield Street.....	Flush
Butterfield	"	corner Mt. Vernon Street.....	Flush
Butterfield	"	opposite No. 13.....	Flush
Third Avenue		.....	Post

RESERVOIRS.

- One on Chestnut, corner of Willow Street.
- One on Myrtle, at head of Fifth Street.
- One on Fourth, near Read Street.
- One on Bridge, corner Seventh Street.
- One on Tyler, corner George Street.
- One on Union, corner of Chapel Street.
- One on Chapel, corner of Keene Street.
- One on Central, at Hosford Square.
- One on Westford, corner of Grand Street.
- One on Branch, corner of Queen Street.
- One on Middlesex corner, of Wilder Street.
- One on Forest Street.
- One on Salem, corner Decatur Street.
- One on Cross, between Fletcher and Willie Streets.
- One on Varney, near Mt. Vernon Street.
- Two openings in canal on Moody Street.

THIRTEENTH
ANNUAL REPORT
OF THE
Lowell Water Board
TO THE
CITY COUNCIL,

ACCOMPANIED BY THE REPORTS OF THE CITY ENGINEER
AND OF THE SUPERINTENDENT OF WATER WORKS,
TO THE WATER BOARD.

JANUARY 12th, 1886.



LOWELL, MASS. :
CITIZEN NEWSPAPER CO., PRINTERS.
1886.

CITY OF LOWELL.

IN COMMON COUNCIL, JAN. 15, 1886.

Read and sent up to the Board of Aldermen.

DAVID CHASE, *Clerk.*

IN BOARD OF ALDERMEN, JAN. 15, 1886.

Read by title and ordered on file.

SAMUEL M. CHASE, *City Clerk.*

CIVIL ORGANIZATION, LOWELL WATER WORKS.

From their commencement to Jan. 1, 1886.

JOINT SPECIAL COMMITTEES.

1869.

Jonathan P. Folsom, mayor.
Charles A. Stott, alderman.
Cyrus H. Latham, alderman.
William H. Anderson, councilman.
Frederick T. Greenhalge, councilman.
Albert A. Haggett, councilman.
Edwin Lamson, councilman.

1871.

Edward F. Sherman, mayor.
Albert A. Haggett, alderman.
Henry P. Perkins, councilman.
Jeremiah Crowley, councilman.
William Dobbins, councilman.

1870.

Jonathan P. Folsom, mayor.
Charles A. Stott, alderman.
Albert A. Haggett, councilman.
Wm. Kittredge, councilman.
Wm. O. Fiske, councilman.

1872.

Josiah G. Peabody, mayor.
Alexander G. Cunnock, alderman.
Henry P. Perkins, councilman.
Nathaniel C. Sanborn, councilman.
Crawford Burnham, councilman.

WATER COMMISSIONERS.

1870-'71-'72.

Levi Sprague, chairman.
Wm. E. Livingston.
Henry H. Wilder, resigned Sept, 26, 1871.
Samuel K. Hutchinson, elected to fill vacancy.

WATER BOARD.

1873.

Levi Sprague, president, from the citizens.
William F. Salmon, from the citizens.
Jonathan P. Folsom, alderman.
Nathaniel C. Sanborn, councilman,
Nathan W. Frye, councilman.

1878.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Horace R. Barker, alderman.
John F. Kimball, councilman.
Charles H. Harvey, councilman.

1874.

Levi Sprague, president, from the citizens.
William F. Salmon, from the citizens.
Nathaniel C. Sanborn, alderman.
Nathan W. Frye, councilman.
G. W. S. Hurd, councilman.

1879.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Horace R. Barker, alderman.
Edward B. Pierce, councilman.
Robert G. Bartlett, councilman.

1875.

Geo. Runels, president, from the citizens, re-
signed Nov. 9, 1875.
Cyrus H. Latham, president *pro tem.*; from
the citizens.
Benjamin Walker, alderman.
Albert A. Haggett, councilman.
Earl A. Thissell, councilman.

1880.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Robert Wood, alderman.
Charles C. Hutchinson, Councilman.
Edward B. Pierce, councilman.

1876.

Cyrus W. Latham pres., from the citizens.
Earl A. Thissell, from the citizens.
Albert A. Haggett, alderman.
Benj. C. Dean, councilman, resigned May,
1876.
John F. Kimball, councilman, elected to
fill vacancy.
Orford R. Blood, councilman.

1881.

Albert A. Haggett, pres., from the citizens.
James W. Bennett, from the citizens.
Robert Wood, alderman.
Charles C. Hutchinson, councilman.
Samuel Hosmer, councilman.

1877.

Cyrus H. Latham, pres., from the citizens.
Albert A. Haggett, from the citizens.
Horace R. Barker, alderman.
John F. Kimball, councilman.
James W. Bennett, councilman.

1882.

Albert A. Haggett, pres., from the citizens.
Charles C. Hutchinson, from the citizens.
Thomas R. Garity, alderman.
William N. Osgood, councilman.
Frank Wood, councilman.

1883.

Albert A. Haggett, pres. from the citizens.
Chas. C. Hutchinson, from the citizens.
George W. Fifield, alderman.
Edward B. Peirce, councilman.
John J. Hogan, councilman.

1885.

Albert A. Haggett, pres. from the citizens.
C. A. R. Dimon, from the citizens.
James Francis, alderman.
Alfred M. Chadwick, councilman.
Arnold S. Welch, councilman.

1884.

Albert A. Haggett, pres. from the citizens.
C. A. R. Dimon, from the citizens.
George W. Fifield, alderman.
Edward B. Peirce, councilman.
John J. Hogan, councilman.

1886.

Walter Coburn, pres. from the citizens.
C. A. R. Dimon, from the citizens.
James Francis, alderman.
Arnold S. Welch, councilman.
Frank W. Howe, councilman.

Investigations were made at various times, by order of the City Council for the introduction of pure water into the city, viz: By Joint Special Committees consisting of the following named citizens:

1833.

Oliver M. Whipple, alderman.
George Brownell, alderman,
Thomas Hopkinson, councilman.
Benjamin Walker, councilman.
David Dana, councilman.

1839.

Oliver M. Whipple, alderman.
John Clark, alderman.
Thomas Hopkinson, councilman.
Benjamin Walker, councilman.
John Nesmith, councilman.

1848.

Jefferson Bancroft, mayor.
Oliver M. Whipple, alderman.
David Dana, alderman.
John Avery, councilman.
Otis L. Allen, councilman.
Thomas Hopkinson, councilman.
Ignatius Tyler, councilman.

1865.

George W. Norris, alderman.
Edward F. Watson, alderman.
Charles W. Dodge, councilman.
T. L. P. Lamson, councilman.
John Pearson, councilman.

1866.

Josiah G. Peabody, mayor.
Charles W. Dodge, alderman.
Joseph L. Sargent, alderman.
Benjamin Walker, councilman.
Edward C. Rice, councilman.

WATER BOARD, 1886.

President WALTER COBURN.

Term expires first Monday in May, 1887.

C. A. R. DIMON,

Term expires first Monday in May, 1886.

ALDERMAN JAMES FRANCIS.

Councilman ARNOLD S. WELCH.

Councilman FRANK W. HOWE.

Clerk HORACE H. KNAPP.

Superintendent of Works HORACE G. HOLDEN

Foreman of Works THOMAS DOYLE.

Engineer at Pumping Station JAMES P. ROBERTS.

Service Clerk LEONARD T. FARRIS.

Inspectors.

JOHN J. BANCROFT.


ANDREW J. DEVOLL.

THOMAS E. LENNON.

WILLARD S. KNOWLTON.

Meter Inspector.

HENRY E. SPRAGUE.

 The Water office is open daily, from 9 A. M. to 3 P. M., and on Monday evenings, from 7 to 8 o'clock.

REPORT OF THE WATER BOARD.

OFFICE OF LOWELL WATER BOARD,
LOWELL, MASS., Jan. 12, 1886.

To the City Council of the City of Lowell:

GENTLEMEN—The Lowell Water Board in compliance with the Ordinances of the City of Lowell herewith present the Thirteenth Annual Report of the Board:

The year 1885 has been in the Water-Works department one of continued prosperity, and we are pleased to be able to report an increase of the net charges for water of nearly \$7,000 over the charges of 1884.

All departments of the Water-Works are in excellent condition, and are in charge of faithful men, who have been long in the service of the city, in this department.

For the details of work done by this department we would refer to the accompanying Reports of the Superintendent and Engineer.

This department has always been fortunate in having unanimity of action within the Board, every member taking a personal interest in the work of the department, so that a line of action, after careful consideration, being adopted, all have assisted to carry it forward to a successful result.

The first meeting of the Board for the year 1885, was held on the evening of January 12th, the board

being comprised of the following members: Albert A. Haggett, President; and Col. C. A. R. Dimon from the citizens; Alderman James Francis, Councilmen Alfred M. Chadwick and Arnold S. Welch from the City Council.

ORGANIZATION.

The annual organization of the Board, under the provision of the City Ordinance, occurred on May 4th, it being composed of the following members:

Col. C. A. R. Dimon from the citizens.

Walter Coburn “ “ “

Alderman James Francis.

Councilman Alfred M. Chadwick.

Councilman Arnold S. Welch.

On motion of Col. Francis the permanent organization of the Board was postponed until the evening of May 12th.

On the evening of May 12th, the whole Board being present, Walter Coburn was elected President of the Board, and Horace H. Knapp, Clerk.

CONTRACTS.

February 3rd a contract was made with R. D. Wood & Co., of Philadelphia, the lowest bidder for 100 tons of cast iron pipe at \$29.90 per ton of 2240 lbs. delivered in Lowell.

May 1st, proposals were received and opened from dealers in this city for 1200 tons of Powelton mine coal to be delivered and stored in the coal-house at the pumping station, and the contract was awarded to the lowest bidder, Whithed & Co., at \$4.17 per ton of 2240 lbs.

October 5th, a contract was made with Wm. H.

Ward to repair the Beacon Street Reservoir at the following rates, viz.:

For Hoisting Engines per day.. .. .	\$2.00
“ Steam Derricks “ “	2.00
“ Hand “ “ “	1.00

All wheelbarrows, dirt boxes, chains, bars, picks and shovels, mortar boxes, etc, per day, \$1.00, and a commission of 15 per cent. on actual cost of labor of teams and men, for superintendence.

STATISTICS.

The total amount of water pumped during the year was 1,299,730,280 U. S. gallons, against 1,105,277,600 U. S. gallons in 1884, and the daily average pumped was 3,560,904 gallons, against 3,157,936 in 1884, an increase for the year of 194,452,680 gallons, and of 402,968 gallons in the daily average.

The quantity of coal consumed during the year for all purposes, excepting for the High Service Supply was $1,219\frac{820}{100}$ tons against $1042\frac{800}{100}$ tons in 1884. For the High Service supply the consumption during the year was $28\frac{566}{100}$ tons against $30\frac{300}{100}$ tons in 1884.

There have been $532\frac{94}{100}$ gallons of water raised $160\frac{7}{10}$ feet high for each pound of coal consumed during the year.

There are now laid $79\frac{16}{100}$ miles of street mains, the increase for the year having been $2\frac{30}{100}$ miles. The total net charges for water rates for the year after deducting all abatements, and the charges for service pipes, have been \$153,748.32 against \$145,999 93 for the year 1884, an increase for the year of \$7,748.39.

The following table will show the monthly charges for water, from the commencement of the Works to December 31st, 1885, with all abatements, and total net charges:—

Charges for Water by Months, from Commencement to December 31, 1885.

MONTHS.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.
January . . .		\$ 363 94	\$ 418 96	\$ 150 45	\$ 126 51	\$ 169 14	\$ 282 44	\$ 233 73	\$ 182 58	\$ 233 87	\$ 271 52	\$ 472 76	\$ 702 05
February . . .		35 53	235 43	238 85	86 84	144 38	238 19	349 08	146 40	139 22	136 06	347 66	352 90
March . . .	\$ 6,124 94	50,200 10	65,417 68	82,249 51	89,177 52	82,225 43	80,603 69	80,567 44	89,210 88	90,856 37	94,956 65	98,692 13	102,961 30
April	785 85	1,739 56	935 20	265 34	584 11	1,970 12	9,242 84	6,478 39	540 20	403 64	263 10	351 73	439 61
May	2,988 16	3,274 09	2,147 96	874 47	1,819 65	1,121 43	2,751 35	1,476 15	879 61	1,191 41	984 84	1,495 90	1,062 34
June	5,818 78	2,865 86	2,887 43	4,460 91	2,389 52	3,903 69	6 126 86	868 08	12,574 25	16,401 62	17,757 44	18,769 27	21,203 61
July	4,833 52	1,889 03	1,926 31	582 68	3,147 78	1,261 24	1,213 13	11,457 84	273 00	959 8	1,059 37	899 21	1,053 36
August	2,728 30	498 50	449 86	771 87	799 88	677 01	563 35	459 17	514 46	634 40	902 76	984 17	828 40
September . . .	2,827 07	3,245 06	865 90	495 97	3,493 90	4,998 07	6,584 86	8,108 23	10,088 19	10,904 30	12,467 32	12,839 94	13,452 96
October	9,729 05	872 10	2,947 93	4,893 44	543 79	663 80	454 29	338 51	309 22	552 27	941 81	738 12	697 87
November . . .	761 21	634 03	573 35	1,445 65	518 72	1,220 27	1,405 89	620 56	873 16	378 97	1,615 65	693 41	477 10
December . . .	1,571 72	3,689 79	3,955 59	3,246 39	4,040 71	4,522 75	5,794 77	7,851 52	9,593 32	10,848 08	12,512 70	13,544 55	12,617 45
Totals . . .	\$39,168 64	\$69,307 39	\$82,861 60	\$99,674 83	\$98,178 93	\$102,877 32	\$115,261 20	\$118,808 70	\$125,975 27	\$133,503 45	\$143,869 22	\$148,923 85	\$155,848 98
Less abatements to date		1,872 83	640 05	8,185 88	2,502 65	4,343 13	9,590 05	1,02 13	3,766 88	2,490 50	3,094 15	4,314 79	2,100 66
Net amounts .	\$39,168 16	\$67,434 56	\$82,221 54	\$91,489 05	\$95,676 28	\$98,534 19	\$105,671 15	\$117,106 57	\$122,208 39	\$131,012 95	\$140,775 07	\$144,614 06	\$153,748 32

FINANCIAL STATEMENT.

The total gross amount of bills sent to the City Treasurer for collection for this department for the year ending Dec. 31, 1885, is as follows, viz:

For Water Rates	\$92,565.17	
Metered water.....	63,283.81	
Total for the use of water.....		\$155,848.98
For service pipe and laying.....	\$1,636.70	
Meters sold.....	2,275.50	
Sundry accounts.....	3,101.61	7,013.81
Total charges for the year.....		\$162,862.79

The following statement exhibits receipts and expenditures for the year, the net cost of the Water Works, including the interest on the Water Loan, and all expenses in excess of receipts for water rates; also the total cost and expenses of the Works by taxation:

Net cost of Water Works to Jan. 1, 1885, as per last annual report	\$2,370,294.37
--	----------------

Expended during the year for Water pipes, and for laying the same, and all other items of

CONSTRUCTION.

MATERIALS FOR MAINS, SERVICES, &c. :—

Cast-iron pipe.....	\$4,094.36
Cast-iron specials..	319.96
Wrought-iron pipe and fittings.....	776.70
Iron castings.....	170.76
Brass castings.....	22.12
Lead pipe.....	1,296.17
Lead pig.....	296.55
Tin pig.....	21.24
Powder, fuse, &c.,.....	76.40
Stop and waste cocks	836.28
Hardware.....	100.45
Teaming pipe.....	123.08
Lumber.....	244.56
Freight.....	314.29

Amounts carried forward,

\$8,692.92 \$2,370,294.37

<i>Amounts brought forward,</i>	\$8,692.92	\$2,370,294.37
Wood.....	26.00	
Tinning couplings.....	3.34	
Kyanizing boards.....	40.61	
Cement.....	1.24	
Charcoal.....	2.40	
Concrete.....	39.25	
Damage.....	1.00	
Service boxes.....	308.41	
Water gates.....	723.50	
Hydrants	668.20	
Hydrant repairs.....	5.75	
Hydrant castings.....	163.58	
Hydrant freight.....	20.24	
	<hr/>	
	\$10,696.44	

LABOR, PAY-ROLL ON ACCT. OF—

Extensions.....	\$1,969.97	
Services	1,144.89	
Piping	773.56	
Foreman.....	870.17	
	<hr/>	
	\$4,758.59	
	<hr/>	
	\$15,455.03	

MAINTENANCE.

Expended for repairs, current expenses, pump-
ing, &c., viz :—

REPAIRS.

Iron, steel, &c.,.....	\$256.76	
Brass castings.....	104.01	
Tools, purchased and repaired.....	90.61	
Hardware.. . . .	105.72	
Lumber	138.18	
Leather	9.17	
Teaming.....	25.43	
Clay pipe.....	4.40	
Cleaning conduit.....	15.55	
Rubber boots.....	60.25	
Brick.....	2.40	
Sundries.....	139.85	
Labor pay-roll.....	4,872.53	
Labor.....	167.51	
	<hr/>	
Total repairs.....	\$5,992.37	

Amount carried forward,

\$2,370,294.37

REPORT OF THE WATER BOARD.

13

Amount brought forward,

\$2,370,294.37

CURRENT EXPENSES. Pay-roll.

Salaries.....	\$1,893.55	
Inspection.....	2,805.28	
Clerk hire.....	2,845.54	
City Engineer.....	669.55	
	<hr/>	\$8,213.92

Materials.

Printing, stationery, &c.....	396.11
Postage stamps.....	29.80
Travel and express.....	80.84
Sundries, office.....	102.65
Telephone	255.25
Analyses of Water.....	100.00
Flushing sewers.....	33.00
Rent of water office.....	75.00
Coal.....	5.50
Corn, oats, straw, &c.....	230.03
Gas.....	1.86
Sundries, pipe yard.....	96.95
Horse shoeing	53.97
Repairing wagons.....	210.18
Repairing harnesses.....	68.65
Horse, wagon, sleigh and harness.....	386.00
Lumber (fence at pipe yard).....	110.54
Labor at pipe yard.....	65.58
	<hr/>
Total current expenses.....	<u>\$10,515.83</u>

PUMPING ACCOUNT.

Coal.....	\$5,113.69
Labor pay-roll.....	3,757.11
Labor.....	48.69
Steam indicator.....	63.00
Felting	27.51
Iron, steel, &c.....	148.16
Packing.....	26.88
Oil.....	151.38
Gas	127.12
Wood	9.89
Freight.....	1.05
Brooms	4.50
Lumber....	3.41
Printing.....	7.75
Sundries.....	84.73
Soap.....	5.44
	<hr/>

Amounts carried forward,

\$9,580.31 \$2,370,294.37

<i>Amounts brought forward,</i>		\$9,580.31	\$2,379,294.37
Files.....		3.45	
Re-tubing boiler.....		100.00	
Iron bedstead and mattresses.....		25.50	
Cotton waste.....		27.13	
Rubber valves.....		41.18	
Total pumping account.....		<u>\$9,777.57</u>	
METER ACCOUNT.			
Meters purchased.....		\$1,411.78	
Labor pay-roll.....	\$2,490.47		
Repairs on meters.....	749.11		
Freight “.....	42.93		
Supplies.....	7.80		
Unions.....	42.75	3,333.06	
Total meter account.....		<u>\$4,744.84</u>	
RESERVOIR, BEACON STREET.			
Manure.....		\$20.00	
Plowing and sowing.....		8.00	
Cleaning vault.....		6.00	
Wall paper.....		7.00	
Cutting and storing hay.....		113.25	
Expenses wounded men.....		14.30	
Lumber.....		174.71	
Police services.....		62.50	
Printing.....		20.75	
Oil, waste, tallow, &c.....		15.79	
City Engineer (expense to New York).....		17.68	
Slate.....		2.64	
Mason work (dry wall).....		1,037.73	
Stone chips.....		47.50	
Cement.....		123.42	
Teaming.....		1,202.38	
Freight.....		191.99	
Gravel.....		202.40	
Granite.....		736.44	
Rebuilding (Ward contract).....		9,842.57	
Construction of telephone.....		31.91	
Telephone.....		30.00	
Analyses of soil.....		20.00	
Stove, &c.....		8.72	
Photography.....		53.65	
Labor, pay-roll.....		605.37	
Labor.....		139.57	
Total Beacon Street Reservoir acct.....		<u>\$14,766.27</u>	
<i>Amount carried forward,</i>			\$2,370,294.37

REPORT OF THE WATER BOARD.

15

Amount brought forward,

\$2,370,294.37

RESERVOIR, HIGH SERVICE.

Land, Milton Fox	\$2,500.00
Interest, " "	278.33
Total High Service Reservoir acct.....	<u>\$2,778.33</u>

RECAPITULATION.

Total construction account	\$15,455.03
“ repairs.....	\$5,992.37
“ Current expense.....	10,515.83
“ Pumping.....	9,777.57
“ Meter.....	3,326.25
“ Reservoir (Beacon Street)....	14,766.27
“ “ (High Service)....	<u>2,778.33</u>
Total maintenance account.....	\$ 47,156.62
Meters purchased.....	<u>1,418.59</u>
Amount expended for the year exclusive of interest...	\$61,030.24
Interest paid during the year	<u>111,850.00</u>
Total expenditures for the year.....	\$175,880.24
	<u>\$2,546,174.61</u>

CREDITS.

Amounts received by the City Treasurer during the year for water rates, service pipes and sundries, viz:

For account of 1884.....	\$ 15,020.36
“ “ 1885	<u>142,936.43</u>

Total receipts for the year.....	\$157,956.79
Net cost of works, including interest on Water Loan to Jan. 1, 1886.....	\$2,388,217.82
Present debt of the city, by bonds and notes, on account of construction of Water Works.....	<u>\$1,890,000.00</u>
Total amount paid from the City Treasury to Jan. 1, 1886, by taxation on account of Water Works, in excess of receipts from Loans and water rates	\$513,217.82
Value of Water Works Sinking Funds, Jan. 1, 1886	<u>511,557.96</u>
	<u>\$1,024,775.78</u>
Net cost of Works, including interest on Water Loan to Jan. 1, 1886	\$2,388,217.82
Whole amount paid by taxation, and by appropriation for the sinking Funds, and the value of the accumulation ^a of said Funds, Jan. 1, 1886	<u>\$1,024,775.78</u>
Debt of the city on account of Water Works, in excess of Water Works Sinking Funds, Jan. 1, 1886	<u>\$1,363,442.04</u>

The following table will show the gross cost of the Water Works, yearly, from the commencement of the same to Jan. 1st, 1886:

Expended in	1870	\$ 95,057.00
"	1871	624,151.66
"	1872	560,708.40
"	1873	349,717.87
"	1874	233,370.63
"	1875	275,660.78
"	1876	221,502.24
"	1877	163,814.28
"	1878	158,510.15
"	1879	150,047.82
"	1880	154,391.59
"	1881	231,171.27
"	1882	173,645.92
"	1883	179,713.23
"	1884	174,552.71
"	1885	175,880.24
		<hr/>
Gross cost of Works to Jan. 1, 1886,		\$3,921,895.79
Receipts from various sources to Jan. 1, 1886,		1,533,677.97
		<hr/>
Net cost of Works to Jan. 1, 1886,		\$2,388,217.82

The following table will show the expenditures and receipts of the Works from 1873 to 1886, exclusive of the interest on the Water Debt:

	Expenditures.	Receipts.	Expenditures in excess of receipts.	Receipts in excess of expenditures.
1873	\$188,376.59	\$ 57,739.48	\$130,637.11	
1874	128,105.63	80,625.66	47,479.98	
1875	170,095.78	94,908.14	75,187.64	
1876	115,012.24	98,815.54	16,196.70	
1877	53,988.72	100,826.63		\$46,837.91
1878	49,900.15	104,142.87		54,242.72
1879	42,157.82	110,185.34		68,027.52
1880	45,031.59	123,740.49		78,708.90
*1881	121,601.27	128,053.97		6,452.70
†1882	64,525.92	140,397.96		75,872.04
1883	65,673.23	152,582.99		86,909.76
1884	64,982.71	154,437.55		89,454.84
‡1885	64,030.24	157,956.79		93,926.55

* In 1881 there were expended the following extraordinary amounts :

For River crossing, 24 inch reserve line \$ 9,988.59

For High Service Water supply 57,969.39

† In 1882, High Service Water supply 10,898.59

‡ In 1885, Beacon Street Reservoir 14,766.27

Had these extraordinary expenses not occurred, the excess of receipts over expenditures for those years would have been respectively \$74,410.68, \$86,770.63 and \$108,692.82.

This department received an appropriation of only \$3000 from the City Council of 1885, and \$2700 of this was used to settle land damages of the High Service Reservoir. So that the department was virtually self-sustaining, and had not the expense of repairing the break at the Beacon Street Reservoir been incurred, the department would have earned a net profit to the city above expenses and interest on the Water Debt.

But an excess of earnings over expenses can not at present be used to reduce the Water Rates, as there are many improvements yet to be made to perfect our system, which can now be done without enlarging our present debt.

As President Haggett remarked in his report of 1884, "the time is near at hand (1890) when the Water Debt can be refunded, and the item of interest on the Water Debt be materially reduced." When that time arrives it should be the policy of the Water Board to reduce the Water Rates, which even now are below the rates of most cities.

Superintendent Holden has attended to the duties of his position faithfully under constant strain of responsibility by day and by night.

H. H. Knapp, the Clerk of the board, has faithfully attended to the office duties. The condition of the records, the attention given to delinquent water-takers, and the small amount of unpaid Water Rates, attest his vigilance, business methods and attention to duty.

The Inspectors, whose duties have been increased, without detriment to the department, have attended to those duties, and take a personal interest in everything that is for the benefit of the department.

For the report on the Sliding of the Paving at the Beacon Street Reservoir, we would refer you to the accompanying Report of the Engineer in charge.

The thanks of the citizens of Lowell and of this Board are due to Messrs. Davis and Francis, Consulting Engineers, and also to the City Engineer, Mr. Evans who devoted his best thought and talents to the work, and it reflects great credit on his ability, that all of his suggestions received the unqualified approval of the eminent Consulting Engineers.

The Pumping Station is in perfect condition, under the watchful care of our Engineer, Mr. Roberts, whose long and faithful services need no word of commendation from us.

We would recommend that in the near future, as soon as the net receipts have reached a certain point, that increased facilities for filtering be supplied, that all the water used may be filtered. This growing need, we trust, will suggest itself to future Boards.

The Ordinance Licensing Plumbers and Pipe Fitters, has during the year been made a part of the Ordinances of the City of Lowell. And the Board turn over to our successors the duty of promulgating rules and regulations which shall govern Plumbers and Pipe Fitters in their work in connection with the City Water Works.

Under the protecting care of the City Council of 1885, the Water department now occupy commodious departments on the ground floor of the Government Building supplied with a fire-proof vault, where the valuable Records of the Department may be safely kept, relieving us of constant anxiety, that in case of

fire in the building, Records representing thousands of dollars to the City, would be destroyed.

We commence another year with every prospect of continued prosperity.

Respectfully submitted,

WALTER COBURN,
CHAS. A. R. DIMON,
A. M. CHADWICK,
JAMES FRANCIS,
ARNOLD S. WELCH,

Members of the Lowell Water Board.

IN WATER BOARD, JAN. 12, 1886.

Read and accepted, and ordered to be transmitted to the City Council.

Attest:

HORACE H. KNAPP,
Clerk.

ACCOUNTS OF THE TREASURER.

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CITY TREASURER OF LOWELL IN ACCOUNT WITH LOWELL WATER WORKS.

Dr.				Cr.			
1885.				1885.			
				By payments during the year, viz :			
Jan.	To appropriation	\$	3000.00	Interest.	Salaries.	Drafts.	Refunds.
"	" Water receipts		6,692.73	\$ 3,210	\$158.33	\$2,593.44	
Feb.	" "		6,092.13	330	158.34	4,545.45	
Mar.	" "		1,794.98	300	158.33	1,769.00	
Apr.	" "		4,639.10	1,745	158.33	2,179.86	
May	" "		28,721.54	46,870	151.89	2,998.74	\$991.90
June	" "		53,033.26	5,630	158.33	7,028.21	2.75
July	" "		21,114.51	1,140	158.33	5,993.59	88.85
Aug.	" "		12,793.84	420	158.34	5,932.38	8.82
Sept.	" "		6,225.18		158.33	3,908.35	
Oct.	" "		7,499.53	1,685	158.33	10,908.37	
Nov.	" "		6,903.19	44,350	158.34	9,858.56	
Dec.	" "		3,584.12	6,170	158.33	4,420.74	
"	Overdraft		42.00				
"	Reservoir Loan		15,000.00				
				\$111,850	\$1,893.55	\$62,136.69	\$1,092.32
				Bal.	\$176,972.56	163.55	
					\$177,136.11		

THIRTEENTH ANNUAL REPORT
OF THE
City Engineer to the Water Board.

JANUARY 1, 1886.

REPORT OF THE ENGINEER.

OFFICE OF CITY ENGINEER,
LOWELL, MASS., JAN. 1, 1886.

To the Lowell Water Board:

GENTLEMEN: —The undersigned respectfully submits the Thirteenth Annual Report of the work done by the Pumping Engines at the Pumping Station, and the Records, as taken at the Beacon Street Reservoir. The calculations of the duty of the engines were made from the records kept by Mr. James P. Roberts, the engineer in charge.

All the coal used at the station has been charged to pumping, and no deduction has been made; and in the calculation of the duty nothing has been added for friction in the pump.

During the year the Morris engine has run one hundred and thirty-seven and the Worthington forty-five nights. March 24th, the Morris engine pumped 5,952,640 gallons, and April 30th the Worthington engine pumped 5,665,250 gallons, which is the largest quantity pumped during any run of twenty-four hours this year.

In the table of the running expenses of the engines the amounts will not agree with the pumping account as given in the report of the Water Board, for the reason that only the articles used during the year are included. The Morris engine having pumped eighty-four per cent. of all the water; eighty-four per cent. of the pay, cylinder and crude oil, waste, repairs on boilers, tools and sundries, in the running expenses, has been charged to the Morris engine, and the balance to the Worthington engine, this being considered a just division.

The average cost of pumping one million gallons from the low-service reservoir to the high-service reservoir is nine dollars and twelve cents, which added to the cost of raising the same quantity into the low-service reservoir, makes the total cost of raising one million gallons into the high-service reservoir sixteen dollars and forty-one cents.

Table Showing Work Done with Morris Engine (Beam and Fly Wheel) and Boilers for each Month during the year 1885.

MONTHS.	No. of days Pumping.	Ave No. of hours Pumping per day.	Number of hours Pumping per Month.	Number of Strokes made per month.	Average No. of strokes made per minute.	Average head including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. gal. of water raised in reservoir per lb of total coal consumed.	Duty in lbs., 1 foot high, with 100 lbs. coal, used in pumping only, no deduction for ashes or clinkers.	Duty on total coal consumed,
January	27	18-59	512-45	389,512	12.66	164.28	124,643,840	4,616,438	553.	90,196,125	75,777,562
February	28	20-31	574-20	437,000	12.68	164.38	139,840,000	4,994,285	561.	91,225,149	76,875,140
March	27	18-29	499-15	378,141	12.62	164.58	121,005,120	4,481,671	556.	90,670,225	76,326,435
April	16	16-38	266-15	201,422	12.61	163.98	64,455,040	4,028,440	564.	92,799,058	77,118,584
May	10	19-26	194-20	147,096	12.62	164.38	47,070,720	4,707,072	557.	93,050,809	76,312,671
June	26	16-55	439-45	329,368	12.48	164.38	105,397,760	4,053,760	557.	90,953,661	76,335,679
July	21	20-44	435-35	327,901	12.55	163.68	104,928,320	4,996,587	553.	90,878,520	75,452,657
August	23	17-13	396-05	298,502	12.56	163.38	95,520,640	4,153,071	555.	90,698,572	75,617,318
September	23	15-29	356-15	268,258	12.55	164.38	85,842,560	3,732,286	557.	91,424,553	76,219,367
October	20	9-30	181-00	95,459	8.79	147.74	30,546,880	1,527,344	556.	69,792,743	68,521,251
November	20	15-13	304-25	216,242	11.84	158.64	69,197,440	3,459,872	567.	89,780,506	74,927,384
December	24	18-16	438-15	328,022	12.47	163.78	104,967,040	4,373,627	557.	90,909,884	75,967,113
Totals and averages	265	17-21	4598-15	3,416,923	12.38	162.30	1,093,415,360	4,126,096	558.	89,735,245	75,409,571

Table showing work done with Worthington High-Service Engine, 1885.

MONTHS.	No. of days Pumping.	Average number of hours Pumping per day.	Number of hours Pumping per month.	Number of strokes made per month.	Average number of strokes made per minute.	Average head, including friction in feet.	Quantity pumped per month in U. S. gallons.	Average quantity pumped per day in U. S. gallons.	No. of gallons of water pumped into reservoir per lb. of total coal consumed.	Coal in lbs used when pumping.
January	4	h. m. 11-37	h. m. 46-30	85,960	30.81	77.79	1,203,440	300,860	318	3,780
February	4	11-07	44-30	83,787	31.38	78.09	1,173,018	293,254	321	3,650
March	4	11-54	47-35	105,079	36.80	78.67	1,471,106	367,776	320	4,600
April	3	14-50	44-30	92,477	34.64	78.67	1,294,678	431,559	313	4,140
May	4	10-58	43-50	91,602	34.83	78.09	1,282,428	320,607	327	3,920
June	4	15-35	62-20	137,070	36.65	78.67	1,918,980	479,745	325	5,900
July	5	12-24	62-00	147,919	39.76	78.67	2,070,866	414,173	305	6,800
August	4	14-15	57-00	128,330	37.52	78.67	1,796,620	449,155	327	5,500
September	4	15-00	60-00	117,858	32.74	78.67	1,650,012	412,503	324	5,100
October	11	8-25	92-30	125,892	22.68	80.77	1,762,488	160,226	326	5,400
November	7	9-31	66-40	116,308	29.08	81.31	1,628,312	232,616	313	5,206
December	2	18-15	36-30	81,435	37.18	78.67	1,140,090	570,045	319	3,570
Totals and averages.	56	11-51	663-55	1,313,717	32.98	78.89	18,392,038	328,429	319	57,566

Table Showing Amount of Coal Used for Morris Engine at Pumping Station During the Year 1885.

MONTHS.	COAL CONSUMED.			
	For starting fires in Pounds.	When pumping in Pounds.	For banking fires in Pounds.	Total per Month in Pounds.
January . . .	26,400	189,200	9,600	225,200
February . . .	29,400	210,000	9,800	249,200
March	25,200	183,050	9,200	217,450
April	13,500	94,920	5,800	114,220
May	10,200	69,300	5,000	84,500
June	22,200	158,750	8,200	189,150
July	22,800	157,500	9,400	189,700
August . . .	20,400	143,400	8,200	172,000
September . .	18,600	128,630	7,000	154,230
October . . .		53,890	1,000	54,890
November . .	14,400	101,900	5,800	122,100
December . .	22,200	157,600	8,800	188,600
Totals . . .	225,300	1,648,140	87,800	1,961,240

Table Showing Amount of Coal Used for Worthington Duplex Engine at Pumping Station During the Year 1885.

MONTHS.	COAL CONSUMED.			
	For starting fires in Pounds.	When pumping in Pounds.	For banking fires in Pounds.	Total per month in Pounds.
January . . .				
February . . .				
March				
April	9,300	57,380	2,200	68,880
May	15,300	87,200	4,400	106,900
June				
July				
August . . .	2,700	16,800	600	20,100
September . .				
October . . .		148,900		148,900
November . .	6,900	105,100	3,800	115,800
December . .	2,700	16,300	600	19,600
Totals . . .	36,900	431,680	11,600	480,180

Table showing work done with Worthington Duplex Engine for each month during the year 1885.

MONTHS.	No. of days Pumping.	Ave. No. of hours Pumping per day.	No. of hours Pumping per month.	No. of strokes made per month.	Ave. No. of strokes made per minute.	Ave. head including friction in feet.	Quantity pumped per month in U. S. gallons.	Ave. quantity pumped per day in U. S. gallons.	No. gal. of water raised in reservoir per lb. of total coal consumed.	Duty in lbs. 100 lbs. coal used in pumping only, no deduction for ashes or clinkers.	Duty on total coal consumed
January											
February											
March											
April	9	13-48	124-15	93,756	12.58	166.19	29,064,360	3,229,373	422.	70,155,010	58,442,130
May	13	15 12	197-35	145,559	12.28	165.99	45,123,290	3,471,022	422.	71,584,614	58,392,687
June											
July											
August	3	12-00	36-00	270,50	12.52	164.59	8,385,500	2,795,166	417.	68,466,254	57,225,526
September											
October	28	17-20	485-30	206,553	7.09	147.06	64,031,430	2,286,837	430.	52,704,369	52,704,369
November	22	15-23	338-25	165,713	8.16	157.55	51,371,030	2,335,047	444.	64,178,187	58,248,074
December	3	10-58	32-55	269,01	13.62	163.18	8,339,310	2,779,770	425.	69,576,552	57,862,136
Totals and Averages.	78	15-34	1214-40	665,532	9.13	160.76	206,314,920	2,645,063	430.	64,032,467	57,564,938

PUMPING STATION, MORRIS ENGINE.

Running Expenses for the year 1885.

Pay of engineers and firemen.....	\$3,122 37
599 $\frac{1030}{2000}$ tons coal (Powelton) 1884, at \$4.44.....	2,661 85
17 $\frac{1540}{2000}$ tons coal (Cumberland) 1885, at \$4.31.....	76 59
363 $\frac{670}{2000}$ tons coal (Powelton) 1885, at \$3.72.....	1,351 61
2½ cords wood at \$4.00.....	10 00
Gas for lighting works.....	94 89
45 pounds tallow at 12c.....	5 40
131 gallons cylinder oil, at 65c.....	85 15
65½ gallons crude and cold test oil, at 26 $\frac{4}{10}$ c.....	17 29
7 gallons lard oil.....	4 80
18 gallons parafine oil.....	3 10
185 lbs. cotton waste, at 12½c.....	23 13
36 lbs. soapstone packing, at 30c.....	10 80
17 lbs. flax packing, at 35c.....	5 95
Repairs on engine.....	38 04
Repairs on boilers, including heater.....	164 82
Tools, including Tabor indicator.....	61 75
Sundries.....	42 13

Total..... \$7,779 67

Cost of raising water into reservoir, per million gallons.....	\$7 12
Cost of raising water one foot high, per million gallons.....	.04 $\frac{38}{100}$

WORTHINGTON ENGINE.

Running expenses for the year 1885.

Pay of engineers and fireman	\$594 74
87 $\frac{1780}{2000}$ tons coal (Powelton) 1884, at \$4.44.....	390 23
152 $\frac{400}{2000}$ tons coal (Powelton) 1885, at \$3.72.....	566 18
One-half cord wood.....	2 00
Gas for lighting works.....	31 63
25 gallons cylinder oil, at 65c.....	16 25
12 gallons crude and cold test oil, at 26 $\frac{4}{10}$ c.....	3 17
35 lbs. cotton waste, at 12½c.....	4 38
7 lbs. soapstone packing, at 30c.....	2 10
8½ pounds asbestos packing, at 28c.....	2 38
Repairs on engine, felting cylinder.....	32 39
Repairs on boilers, including heater.....	31 40
Tools, including Tabor indicator.....	11 76
Sundries	8 02

Total

\$1,696 63

Cost of raising water into reservoir, per million gallons.....	\$8 22
Cost of raising water one foot high, per million gallons.....	.05 $\frac{12}{100}$

RESERVOIR, 1885, BEACON STREET.

The following table shows the average depth of water, the number of gallons, and the temperature of the water in the reservoir, and also the temperature of the air for each month. The temperature of the water was taken at 6 A. M. and 6 P. M., and of the air at 6 A. M., 1 and 6 P. M.

MONTHS.	Depth in Feet.	Quantity in U. S. Gallons.	Temperature in Degrees.	
			Of Water.	Of Air.
January.....	18.11	27,425,970	33.37	24.82
February	18.45	27,986,140	33.00	19.01
March.....	18.22	27,599,570	33.74	27.15
April.....	18.04	27,302,110	42.05	49.06
May.....	18.32	27,762,340	56.10	57.21
June	18.02	27,264,960	68.37	71.04
July.....	18.15	27,483,800	74.85	75.21
August.....	17.86	27,012,160	71.87	69.24
September.....	17.64	26,643,400	62.71	61.31
*October			53.58	51.80
*November.....			42.26	42.41
December	16.98	25,568,990	33.98	30.73

*Reservoir being cleaned and repaired.

Table showing the average monthly and daily consumption of water for the year 1885 :

MONTHS.	Gallons per month.	Gallons per day.
January	128,269,760	4,137,730
February	137,899,390	4,924,980
March	121,144,650	3,907,890
April	93,100,400	3,103,350
May	92,891,640	2,996,500
June	103,294,290	3,443,140
July	109,923,630	3,545,920
August	102,399,040	3,303,190
September	97,308,725	3,243,620
*October	110,604,320	3,567,880
November	93,763,433	3,125,447
December	109,976,190	3,547,620
Total and average	1,300,575,470	3,563,220

*About $4\frac{1}{2}$ feet in depth, wasted from reservoir.

The following table shows the cost of coal, cost to pump one million gallons of water into the reservoir, and the total quantity pumped since the works were completed :

YEARS.	MORRIS ENGINE.			WORTHINGTON ENGINE.		
	Average cost of coal per ton.	*Cost to Raise 1,000,000 galls. of water into reservoir.	Total quantity of water pumped.	Average cost of coal per ton.	*Cost to raise 1,000,000 galls. of water into reservoir.	Total quantity of water pumped.
1873	\$8.63	\$31.88	186,683,700			
1874	7.85	21.25	288,060,990			
1875	7.81	14.33	445,017,090			
1876	6.83	11.54	397,768,750	\$6.94	\$14.68	145,698,140
1877	6.43	10.71	553,887,540	6.50	13.05	41,559,530
1878	5.48	9.13	653,323,140	5.51	11.77	36,593,020
1879	4.89	8.69	652,166,530	4.92	9.87	86,863,860
1880	4.42	7.84	771,500,100	4.49	9.48	52,100,770
1881	5.27	†9.72	718,721,320	5.31	9.83	156,275,340
1882	5.24	8.73	773,749,760	5.18	9.12	186,181,970
1883	5.12	8.55	803,694,400	5.35	10.66	238,796,100
1884	4.70	7.88	931,831,360	4.84	†11.62	173,446,240
1885	4.17	7.12	1,093,415,360	3.98	8.22	206,314,920

*Not including interest on works.

†Extraordinary repairs.

BEACON STREET RESERVOIR.

During the time the water in the reservoir was being drawn off by City consumption for the purpose of cleaning the basin, nearly one-half of the granite paving on the north slope started at 3 p. m., October 2nd, 1885, and slid partially down, making a diamond shaped breach one hundred and fifty feet in length and eight wide in the widest part. The water at this time had been drawn down to seven feet in depth.

October 4th, at 3 p. m., the paving on the west slope adjoining the Gate House on the south side slid down and piled up on the bottom of the reservoir. This slide was one hundred and fifty-seven feet in length. The next forenoon at 11 o'clock a section of paving on the west slope one hundred and fifty feet in length started from a point forty-five feet south of the northwest corner and sliding into the reservoir about twenty-four feet from the foot of the slope ploughed up the bottom puddle into quite a ridge. At this time the water was about two feet deep.

When the pump stopped delivering water into the reservoir, September 26th, the depth of water was about nineteen and one-half feet. Since the reservoir was completed thirteen years ago, the water has never been less than eleven feet deep.

When the water was drawn down, the banks were so thoroughly saturated and the bottom puddle had become so softened as to offer no resistance, and the slope puddle acting as a lubricant allowed the paving to slide.

In no case did the slides break back of the original face of the slope in the rear of the puddle lining, and above the original surface the puddle on the embankment remained nearly as originally laid. All of the material for the puddle on the slopes and bottom was selected from the excavation and is known as "hard pan" or puddling gravel.

An analyses of the material by Mr. W. P. Atwood, chemist, since the accident show it to be composed largely of fine sand mixed with gravel and clay, the proportion of clay being about nine per cent.

Seven derricks were placed on top of the embankments, and the hoisting out of the material was begun October 8th, by Mr. Wm. H. Ward, the well known contractor. All of the soft and mirey puddle was taken out, and the space below the base of the embankment was filled with fine bank gravel to the original slope, and on the embankment where any filling was required the gravel was thoroughly mixed with one-third of the old puddle.

It being very difficult to procure pure clay in time for the work so as not to delay the paving, and the difficulty of working it as the weather had become cold, none was used in repairing the puddle slopes. The first stone of the foundation course was laid October 22nd, and the paving on the slopes November 8th, was laid up to a height that allowed water to be pumped into the reservoir to a depth of four feet, which was increased as the paving progressed.

The paving was finished November 30th, making thirty-one working days to complete it. The plan of relaying the paving was changed and instead of having a base course laid level with the bottom, a trench was excavated five and one-fourth feet deep and at right angles to the slope.

The bed stones varied from three and one-half to five feet wide, and from twelve to eighteen inches thick, and the second course was about two and one-half feet wide and fifteen inches thick. These courses were laid in cement mortar and at right angles to the slope paving, which was laid dry upon a layer of broken stones from eight to twelve inches thick.

At the foot of the old paving on the west slope which remained in place adjoining the southwest angle a block of cement concrete three feet square and forty-six feet in length was laid to prevent it from sliding. At the foot of the north slope, at the northwest corner a block of granite masonry about three feet square and nine feet in length was laid in cement mortar.

The northeast slope paving which bulged near its center soon after the reservoir was completed has increased some during the past thirteen years, but is considered stable. During the time the basin was drawn off this slope was carefully measured and watched, and no movement was discovered. This paving will probably remain as it is, if a blind drain is laid outside the exterior slope at a depth below the bulged portion so as to intercept and carry off the water from the springs which are in the side hill above. To prevent this slope from sliding, which has started at the foot, a dry wall eight feet wide and four feet high was laid overlapping the footing course. This work was done under a contract with Luther F. Kittredge.

The other slope paving has remained as originally laid except a slight settlement at the top.

I would recommend that the waste material which is now piled up against the west embankment be used in the spring to increase the thickness of the embankment at the base, and also that the portion

opposite the gate house be considerably increased. The top of the entire embankment should be raised on the inner line so as to incline the surface toward the outer slope to prevent any drainage into the reservoir.

Respectfully submitted,

GEORGE E. EVANS, *City Engineer.*

THIRTEENTH ANNUAL REPORT

OF THE

Superintendent of Water Works,

TO THE

LOWELL WATER BOARD.

JANUARY 1, 1886.



REPORT OF THE SUPERINTENDENT.

SUPERINTENDENT'S OFFICE, CITY HALL.
LOWELL, JANUARY 1, 1886.

To the Lowell Water Board:

GENTLEMEN:—In compliance with the requirements of the City ordinance relating to the Water Works, I respectfully submit herewith the thirteenth annual report of the Superintendent of the Lowell Water works for the year ending December 31st, 1885.

The total amount of water pumped into the reservoir during the year was 1,299,766,280 gallons, an increase of 194,488,680 gallons over the amount used in 1884. This gives an average daily consumption of about 55 gallons of water for each inhabitant, and includes all the water that is used for manufacturing purposes as well as for domestic use, also for street fountains, extinguishing fires, sprinkling streets, etc. The total quantity of water sold by meter measurement amounts to 316,419,050 gallons, an increase over last year of 34,472,650 gallons.

A general inspection of the filter inlet, gallery and conduit was made May 13th by the Water Board accompanied by the City Engineer.

As there was from 6 to 12 inches of silt all through the bottom of the brick conduit and a thick coating of slime on the sides and top of both the gallery and conduit it was deemed advisable to give both the gallery and conduit a general cleaning, and in order to accomplish this in a thorough manner, a 30 inch blow off was connected to the conduit pipe on the westerly bank of Beaver Brook, and a 30 inch gate set in the main line, so that by closing this gate and opening the blow off gate, the conduit can be drawn off in a short time. July 16th the conduit was drawn off and as large a force of men as could work to advantage were set at work with hoes and rattan brooms to scrape the bottom and scrub the sides. The cleaning was done in the day time, and each night the 30 inch river gate was opened, letting the water rush through so as to carry all the sediment that had been stirred up during the day, out through the blow off

into Beaver Brook. The work of cleaning the conduit occupied four days, and with the exception of the 1067 feet of tunnel which is not bricked, is now as clean as when first built.

In order to prevent further accumulations of any unhealthy organisms in the conduit, I think it would be advisable to line the bottom and sides of the tunnel either with brick or concrete, and by so doing the whole conduit could be cleaned at any time and at a small expense.

GALLERY.

As the water in the gallery could not be drawn down less than 18 inches in depth, two steam pumps each having a capacity of raising 1000 gallons per minute, were set at the manhole near the filter inlet. As soon as the gallery was pumped dry, the top and sides were cleaned and washed in the same manner as the conduit, and all the sediment in the bottom scraped up and hoisted out from the manholes and gate chamber.

The water throughout the gallery is now perfectly clear, and the whole place is as clean as when it was first constructed.

FILTER INLET.

After cleaning the gallery, the water in the filter inlet was pumped out and carried by wooden spouts into the river. The inlet was then cleaned, fresh sand put in, and a box 12 inches by 24 inches, and 65 feet long, laid from the inlet out into the river to the outside of the old piling. By this arrangement, all the water which now flows into the inlet, comes from the river 65 feet out from the shore, and prevents the silt on the bank from being washed into the inlet.

It is expected that as long as the inlet is perfectly clean, that sufficient water will filter through to supply the gallery with all the water needed; but shortly after this job was completed, there was a rise in the river, so that the water flowed over the front bank into the inlet, leaving so much deposit that no water would filter through. In order to make this inlet available, the bank on the the river side should be raised several feet higher than it now is, so that no ordinary freshet would overflow it, and then with a steam pump to remove the water whenever the inlet needed cleaning: probably filtered water exclusively, could be had for a large portion of each year.

PUMPING STATION.

At the Pumping Station the Morris engine has pumped 1,093,451,360 gallons, and the Worthington has pumped 206,314,920 gallons

of water into the reservoir. No repairs of any account have been made on either engine. The No. 1 boiler has had a new set of wrought iron tubes, a $2\frac{1}{2}$ inch return bend coil heater has been put into the flue behind the new boilers, and a sleeping apartment has been partitioned off from the engine room.

HIGH SERVICE.

Eighteen million three hundred and ninety-two thousand and thirty-eight gallons of water have been pumped into the high-service reservoir during the year, a decrease of 781,312 gallons over last year. There have been no new extensions laid on this division but 3 services in Belvidere and 2 in Centralville have been added, making a total of 119 houses, 6 stables, 2 fountains, and 30 hydrants now supplied with water from the high service system.

RESERVOIRS.

September 26th pumping was suspended preparatory to drawing off the reservoir in order to clean out whatever sediment had accumulated during the past thirteen years. There was an average depth of about 4 inches of sediment, composed principally of silt which had been pumped up from the river during freshets.

While the reservoir was being drawn down, three of the paved slopes slipped out from the bottom, necessitating the entire rebuilding of these slopes.

For a detailed statement of the accident and the repairs of the slopes, I refer you to the accompanying report of the City Engineer Mr. George E. Evans.

Pumping was resumed October 4th, the gate between the gate chamber and reservoir being closed, and the partition gate opened, so that the water went direct from the force main through the gate chamber into the distributing main.

October 5th, the water having all been drawn out of the reservoir, work was commenced preparatory to taking out and relaying the slopes which were completed December 2nd. After the slopes were finished the fences were replaced, but the winter season being so far advanced it was thought best to suspend cleaning up the grounds until spring.

After the sediment had been removed from the reservoir and the remaining slopes scraped and washed, water was again let in, and November 26th the reservoir being so near completed that it held 20 feet of water, the mains throughout the city were given a thorough blowing off, so that now the whole water system is practically as clean as when first constructed.

EXTENSIONS.

Two miles two hundred and ninety-three feet of mains have been laid this year, mostly on new streets and in many cases where the revenue will doubtless be small for several years, but in each of these cases the petitioners signed a bond agreeing to pay the interest on the cost of the pipe for five years, after deducting 125 feet for every house taking water. The line laid this year through Lincoln street over Hale's brook, gives another feeder to Ayer City, and is liable to be much needed if a large fire should occur in that section.

HYDRANTS.

There have been 8 post hydrants set on extensions. The flush hydrant at the lower end of Prince street has been taken out, also the two old style hydrants on the 4 inch line back of the City hall. The 3 old style hydrants on Bridge street, and 2 old hydrants on French street have been replaced by new Ludlow hydrants. The flush hydrant boxes throughout the city are beginning to be badly decayed and 12 have been replaced by cast iron ones, while 32 have been replanked.

METERS.

There are now 1421 meters in use, an increase of 73 over last year.

The following amount of work has been done on meters: Meters set during the year, 88; meters taken out for repairs, 427; meters taken out and others set in their place, 81; Worthington meters taken out cleaned, repaired and reset, 95; Desper meters sent and repaired at Worcester, 245; Desper meters taken out and repaired at shop, 23; meters worn out and replaced by others, 10; meters destroyed by freezing, 19.

Meters Running January 1st, 1886.

Size in inches.	$\frac{5}{8}$ in.	$\frac{3}{4}$ in.	1 in.	$1\frac{1}{2}$ in.	2 in.	3 in.	4 in.	Motor Register.	Totals.
Desper	501	134	64	1					700
Worthington	290	29	49	70	24	6	2		470
Crown	57	75	26		2		1		161
Duplex	17	15	10						42
Ball & Fitts	21	9	2	1					33
Fitts Rotary	9	1	1						11
Motor Register								4	4
Total,	895	263	152	72	26	6	3	4	1421

SERVICES.

Two hundred and fifty-four new services have been put in ; 133 old services have been changed for either lead or larger iron, and 24 services having been discontinued were cut off at the main.

Complaints regarding the filling up of the service pipes have been of frequent occurrence. Also many of the first services laid have already begun to rust through, showing conclusively that there is a limit to the durability of wrought iron pipe. This year it was thought advisable to substitute lead pipe, in consideration that Prof. Samuel Cabot of Boston had made a careful analysis of our city water, also of lead pipe which had been in use here over 12 years and reported that there could be no trouble caused by the use of it.

The amount of service pipe laid as follows :

Laid during 1885,	$\frac{3}{4}$ inch wrought iron pipe.....	1,664 feet
“	“ 1 inch “ “	2,579 “
“	“ $1\frac{1}{2}$ inch “ “	32 “
“	“ 2 inch “ “	243 “
“	“ $2\frac{1}{2}$ inch “ “	56 “
“	“ 3 inch “ “	20 “
“	“ $\frac{5}{8}$ inch lead “	3,450 “
“	“ $\frac{3}{4}$ inch “ “	582 “
“	“ 1 inch “ “	345 “
Total laid during 1885.....		8,971 feet
Add amount previously laid.....		258 320 feet
Total amount laid.....		267,291 feet

Number and Kind of Services Changed During the Year Ending Dec. 31, 1885.

SIZE OF SERVICES CHANGED FOR		$\frac{5}{8}$ in. lead.	$\frac{3}{4}$ in. lead.	1 in. lead.	1 in. iron.	$1\frac{1}{4}$ in. iron.	$1\frac{1}{2}$ in. iron.	2 in. iron.	Total in feet.
43	$\frac{3}{4}$ inch. iron.	1838							1838 feet.
36	$\frac{3}{4}$ inch. "		1936						1936 "
30	$\frac{3}{4}$ inch. "			1208					1208 "
2	1 inch. "			96					96 "
16	$\frac{3}{4}$ inch. "				537				537 "
1	$\frac{3}{4}$ inch. "					31			31 "
4	$\frac{3}{4}$ inch. "						170		170 "
1	1 inch. "							32	32 "
133	Totals . .	1838	1936	1304	537	31	170	32	5,845 feet

During the year the water has been shut off from the premises of 50 water-takers for non-payment of water rates, and the number let on upon payment of the rates is 34. The whole number of services remaining shut off for non-payment is 16.

ITEMS OF OTHER WORK DONE.

A new survey has been made of all the stop gates on the street mains. This was found necessary, as many of the former street bounds had been so changed that frequently much difficulty was experienced in finding them, especially when covered with snow. All the service boxes, street gates and hydrants have been inspected and put in good order. Large pipe drinking fountains have been set in place of the old style ones at Salem street, corner of Pawtucket street; also on Lawrence street, corner of Agawam street. Two self-closing drinking fountains have been set on the South Common. The following fountains have been taken out and discontinued: Middlesex street, opposite St. Cloud hotel; Middlesex street, opposite A. F. Wright's market, and at Lincoln street, corner of Tanner street.

The two 12-inch gates on the corporation line on Worthen street, and on Tremont street, have been taken out and the three-ways capped, as it was evident that the gates would never be used where they were.

New fences have been built around the pipe yard on Broadway and around the gate chamber grounds on Varnum avenue.

In addition to the cast iron main pipe laid there has been an additional amount of wrought iron smaller sizes as per following :

Schedule of Small Pipe Laid.

STREETS.	1 inch.	1½ inch.	Total ft.
Cabot, changed from $\frac{3}{4}$ inch		129	129
Court off Fulton street		190	190
Court off Old Meadow Road	166		166
Lowell Manf'g Co., off Market St., lead	283		283
Meadowcroft (off in court)	147		147
Mt. Grove		245	245
Old Meadow Road		587	587
Old Meadow Road, changed from $\frac{3}{4}$ inch		372	372
West	57		57
Total	653	1523	2176

In conclusion, I desire to express my sincere thanks to your honorable Board for the uniform kindness extended to me in the discharge of my several duties during the past year.

Respectfully submitted,

HORACE G. HOLDEN, Supt.

Low Service.—Water Pipes Laid in 1885.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.				
		4 in.	6 in.	8 in.	30 in.	Total.
Arlington .	Extended south'y to Bowers st.	50				50
B . . .	Extended westerly . . .		42			42
Barker Ave. .	Southerly from Sutherland st.		82			82
Barker Ave.	Boynton and Ludlam streets		158½			158½
Bowers .	Extended westerly to Arlington	53				53
Boynton .	Extended westerly . . .	50½	175			225½
Brooks .	Extended easterly to Fletcher		184			184
Court (Ward 5)	Northeasterly from Butler	198½				198½
Cumberland r'd.	Extended southerly . . .		63			63
Cumberland r'd.	Northerly from Ludlam .		303			303
E. Merrimack	Extended easterly to town line		862½			862½
Humphrey .	Northerly from Methuen .		539			539
June . . .	Northerly from Thirteenth .		199			199
Lincoln . . .	Across Riv. Meadow Brook to Ayer City,		540			540
London . . .	Easterly from West to connect		209			209
Ludlam .	Easterly from Hildreth .		727			727
Ludlam . . .	Westerly from Barker avenue		157			157
Ludlam .	Easterly from Barker avenue		159			159
Lundberg .	Extended easterly . . .	96				96
May . . .	Twelfth and Thirteenth . . .		602½			602½
Meadowcroft	Extended southerly . . .		195			195
Methuen .	Extended Easterly . . .		381			381
Oakland Ave.	Southerly from Pine . . .		446			446
Pine . . .	Extended Westerly . . .		148			148
Second Ave.	Extended northeasterly . .		108			108
Seventh . . .	Easterly to Varnum . . .	155				155
South Loring	Extended southerly . . .		375			375

Low Service.—Water Pipes Laid in 1885.—Concluded.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET.				
		4 in.	6 inch	8 inch	30 inch	Total.
Sutherland .	Hildreth st. and Barker ave.		855			855
Taylor . . .	Across Concord river .			475½		475½
Third ave. .	N'east'ly from M'moth Road		696½			696½
Twelfth . . .	Extended westerly to May		132			132
Walden . . .	Westerly from Oakland av.		195			195
Ware	Extended southerly .		47½			47½
Webster . . .	Southerly from Tenth .	218				218
West (Ward 3)	Lincoln and London .	205				205
West Fourth .	Extended to pipe in Bridge		144			144
West Nineteenth	Extended easterly .		380			380
Blow-off . . .	On pipe c'duit line at B. Bk.				52	52
	Hydrants		86			86
		1026	9191½	475½	52	10,745
Brooks st. not reported in 1882		50				50
West st. Ward 2 " " 1884.			58			58
Total in feet		1076	9249½	475½	52	10,853
Low service pipes laid previous to 1885						392,408
Total low service to Jan. 1, 1886						403,261
High service pipes laid previous to 1885						15,171
Total high and low service to Jan. 1, 1886						418,432
Total in miles to Jan. 1, 1886						79.25

List of Hydrants Set During the Year 1885.

STREETS.	LOCATION.
Boynton	Opposite Barker avenue, southerly side
East Merrimack	Southerly side, 38 ft. west from town line.
Humphrey	Easterly side 520 ft. northerly from Methuen street.
Ludlam	Southerly side, 400 ft. easterly from Hildreth street.
May	Westerly side 216 ft. southerly from Thirteenth street.
Methuen	Southerly side, opposite Humphrey street.
Sutherland	Northerly side 412 ft. easterly from Hildreth street.
Third avenue	Northerly side, opposite westerly line Mt. Grove street.
Bridge	Between Merrimack street and Amory street, easterly side. Taken out 3 old pattern P. H., and replaced with 3 new pattern three way P. H.
French	Between John street and Bridge street, taken out 2 old pattern P. H., and replaced with 2 new pattern three way P. H.

List of Stop Gates Set During the Year Ending Dec. 31. 1885.

STREET.	LOCATION.	4 inch.	6 inch.	12 inch.	30 inch.			
Arlington	2 ft. north of north line Bowers street; 26.8 ft. east of west line Arlington St.	1						
Barker Ave.	On north line of Boynton street; 13 feet west of east line Barker Ave.		1					
Beaver Brook	On pipe conduit line, west side of Beaver Brook.				1			
Brooks	1 ft. west of west line Fletcher street; 14.8 ft. south of north line Brooks St.		1					
Fletcher	On south line Lagrange street; 17.5 ft. west of east line Fletcher street.			1				
Humphrey	On northerly line Methuen street; 13 ft. from east line Humphrey street.		1					
Ludlam	On east line Hildreth street; 15 ft. from south line Ludlam street.		1					
Oakland Ave.	On south line of Pine street; 22.8 ft. west of east line Oakland Ave.		1					
Sutherland.	2 ft. east of east line Hildreth street; 13 ft. south of north line Sutherland St.		1					
Third Ave.	1 ft. N. E. of N. E. line Mammoth Road; 16.5 ft. S. E. of N. W. line Third Ave.		1					
West (Ward 4)	1.5 ft. south of south line Lincoln street; 13 ft. west of east line West street.	1						
W. Fourth	5 ft. w'ly from w'ly line Bridge street; 15.8 ft. s'ly from n'ly line W. Fourth street.		1					
Blow off	On pipe conduit line; west side of Beaver Brook.				1			

Property at Pipe Yard January 1, 1886.

DIAMETER IN INCHES.	4	6	8	10	12	16	20	24	30
Lengths	23	17	12	25	122	5	17	8	6½
Sleeves		16		1	23	11	4	10	8
Caps	1	4	30		16	3	1	3	
Curves	13	11	12	2	10	4	10	3	2

DIAMETER IN INCHES.	4x4	6x4	6x6	8x6	8x8	10x6	10x8	12x6	12x8	12x10	12x12	16x6	16x8	16x12
3-Ways	2	6	25	5		2	12	7				2	1	
4-Ways			2	5	7		1	1	1		1	1		1
Reducers	4			6			2	6	4	1				1

Stop Gates.—1 4-inch, 5 6-inch, 1 8-inch, 2 12-inch. **Wrought Iron Pipe.**—60 feet 1½-inch pipe, 500 feet 1 inch, 90 feet ¾-inch, 1 reel and 30 ft. ¾-inch lead pipe, 40 ft. ⅝-inch lead pipe. **20 3-4 Inch Tees.**—50 1-inch, 22 1½-inch, 36 1½x1-inch, 11 2-inch. **Crosses.**—24 ¾-inch. 12 1-inch, 12 1x¾-inch, 20 1½x1-inch. **Couplings.**—200 assorted couplings. **Elbows.**—35 1-inch, 12 ¾x½-inch, 33 1x¾-inch, 25 1½x1-inch. **Bushings.**—100 assorted. **Reducing Couplings.**—60. **Plugs.**—12 ¾-inch, 70 1-inch, 36 1½-inch, 10 2-inch. **Unions.**—20 ¾-inch, 40 1-inch, 40 1½-inch, 24 2-inch. **Solder Nipples.**—75 ¾-inch. **Solder Unions.**—60 ⅝-inch, 35 1-inch. 80 assorted caps. **Corp. Cocks.**—6 ⅝-inch, 12 1-inch. **Stop and Waste Cocks.**—10 ⅝-inch brass, 5 1-inch brass, 6¾-inch brass, 21 1-inch, 3 1½-inch. **Regulation Cocks**—7 ⅝-inch, 9 1-inch. **Brass Tees.**—40 ¾-inch, 40 ¾-inch plug, 2 iron hydrant boxes, 2 wood gate boxes, 70 sidewalk boxes, 21 earthen pipe sidewalk boxes, 2 saw horse, 1 buck saw, six hand saws. 1 main pipe testing machine, 2 pipe benches, 3 tool boxes, 3 derricks, 2 fall ropes, 2 sets of blocks, 6 draught chains, 5 wheelbarrows, 2 tongs for cleaning sidewalk boxes, 5 hydrant boxes, 5 frames, 15 covers, 7 gate box frames, 12 covers, 2 set castings for small drinking fountains, ½ cord logs for blasting purposes, 20 picks, 25 pick handles, 12 square shovels, 25 shovels round point, 20 scrub brooms, 6 hand brushes, 24 pairs rubber boots, 10 lanterns, 30 feet rubber hose, 1 hose reel, 2 brass goose neck hydrants, 6 calking sets, 4 nail hammers, 150 sidewalk caps, 200 hundred feet canvass hose, 30 iron lug straps, 250 lbs. bolts, 12 assorted files, 12 assorted gravel screens, 50 lbs. cotton waste, 2 trowels, 10 lbs. iron washers, 30 lbs. assorted nuts, 4 hand hatchets, 1 ax, 5 sling ropes, 1 iron rake, 4 wood plugs for main pipe, 2 tag ropes, 1 dualin pot, 1 10-gallon can, 9 striking hammers, 10 hand hammer handles, 10 striking hammer handles, 1 16-foot straight edge, 350 lbs. pig lead, 3 set old blocks. 2 lead pots, 1 furnace for melting lead, 25 feet drain pipe, 1 zinc pump, 2 copper force pumps, ½ keg 10d nails, ½ keg 30d nails, 40 assorted wrenches, 8 rammers, 3 paving mauls, 6 bbl. cement, ¼ bbl. white clay, 2 snow shovels, 1 work shop, 1 carriage house, 1 stable, 1 store shed, 2 spirit levels. 100 feet lumber for repairing boxes, 2 patterns for making boxes, 1 set blacksmith tools, 800 lbs. steel in drills, 4 scrapers for blasting purposes, 4 lbs. pipe wedges, 3 yarning irons, 2 lead ladles, 8 crow bars, 3 horses, 3 express wagons, 1 light wagon, 3 horse blankets, 3 halters, 2

pungs, 2 horse brushes, 2 hay forks, 2 manure forks, 1 wagon jack, 2 wagon wrenches, 2 canvass covers for horses, 4 harnesses, 2 tons of hay, $1\frac{1}{2}$ tons of carrots, 600 feet of lumber for gate boxes, 6 post hydrants, 6 flush hydrants, 15 second hand hydrants, 12 pairs pipe tongs, 2 stilson wrenches, 5 monkey wrenches, 3 tapping machines, 20 dippers for drinking fountains, 150 feet block tin wire, 1 30-foot extension ladder, $\frac{1}{2}$ bbl. linseed oil, 1 gallon paint for fountains, 2 ratchet cutters, 4 pipe cutters, 4 pipe vices, 20 dies, 2 ratchet die plates, 6 die plates, $1\frac{3}{4}$ inch tap, 1 inch tap, $1\frac{1}{2}$ inch tap, 4 oil cans, 125 feet block tin tubing, 1 soldering pot, 1 mould, 1 charcoal furnace, 1 naphtha furnace, 3 bbl. charcoal, 5 soldering irons, 20 gate spindles, 2 gate disks, 11 hydrant spindles, 24 hydrant valves, 12 hoes, 33 hydrant packings for top, 33 hydrant packings for bottom, 34 5-inch packings for top, 34 5-inch for bottom, 10 packings for 4-inch gate, 12 packings for 6-inch gate, 6 packings for 8-inch gate, 3 packings for 12-inch gate, 1 packing for 16-inch gate, 1 map of distributing main pipes, 1 map showing stop gates, one map of Lowell, 1 map of United States. *Meters.*—1 2-inch. *Worthington Meter.*—3 1-inch, 2 $\frac{5}{8}$ -inch, 1 1-inch. *Desper Meter.*—2 $\frac{3}{4}$ inch, 6 $\frac{5}{8}$ inch, 3 1-inch. *Crown Meter.*—3 $\frac{3}{4}$ inch, 2 $\frac{7}{8}$ inch, 15 $\frac{5}{8}$ inch. *Worthington Meter Second Hand.*—3 $\frac{5}{8}$ inch Ball & Fitts, 3 $\frac{7}{8}$ inch meter, Fitts Rotary meter. *Crown.*—2 $\frac{5}{8}$ inch, 5 bottoms, 8 tops, 15 indicator covers for Worthington meter, 3 lbs. sealing wax, $\frac{1}{2}$ box crayons, $\frac{1}{2}$ box wax candles, 3 set packing patterns, 3 lbs. leather, 1 wire brush, 2 oil pans, 1 brass lantern, 1 pair cut nippers, 6 hard packings for meter, 10 valves and valve seats, 1 roll paper packing, 25 spindles for Worthington meter, 8 spindles for Desper, 2 brass lamps, 1 pair pliers, 1 leather tool bag, 2 match safes, 200 brass unions for $\frac{5}{8}$ inch meters, 25 brass nipples and unions for 1-inch meter, 14 brass nipples and unions for $1\frac{1}{2}$ inch meters, 4 brass nipples and unions for 2-inch meter, 1 5-gallon can, 2 $\frac{1}{2}$ gallon cans, 2 $\frac{1}{4}$ gallon cans, 1 seive and cover, 1 pail and 2 tanks for testing meters, 1 platform scale, 2 chairs, 1 desk, 1 portable closet, 1 clock, 5 pair pipe tongs, 2 stilson wrenches, 4 monkey wrenches, 4 screw drivers, 1 iron wood mallet, 1 claw hammer, 1 hatchet, 1 foot lathe, 1 lathe dog, 1 broom, 1 brush, 1 coal stove, 1 coal hod, 1 surface plate, 1 bit stock, 2 bits, 1 handsaw, 200 lbs. old brass, 2 rubber connections, 2 10-foot ladders, $1\frac{1}{2}$ inch top, $1\frac{3}{4}$ inch, 1 1-inch, $1\frac{1}{2}$ inch, 1 pair snips, 2 washer cutters, 2 soldering irons, 1 2-inch anger, 1 set of numbers, 1 fore plane, 1 bench block, 1 Universal chuck, 1 counter scale, 2 small hammers, 35 out and inlet connections to Desper meter, 6 lead connections for taking out Worthington meter.

Property and Tools at Engine House.

1 vise, 1 work bench, 1 portable forge, 8 sets brasses for engine, 2 sets differential blocks, 1 piece 2-inch rope, 1 set fire irons, 1 brass hydrant, 3 axes, 11 wrenches, 3 handsaws, 2 jack screws, 12 cold chisels, 2 ratchet drills, 1 socket drill, 3 calking chisels, 1 barometer, 2 thermometers, 1 desk, 2 indicators, 1 oil cupboard, 2 oil dishes, 1 platform scale, 4 crow bars, 64 feet $\frac{5}{8}$ inch chain, 16 eyebolts, 1 truck, 1 key wrench for air pump, 1 iron wheelbarrow, 1 bucksaw, 1 saw horse, 2 gas lamps, 1 high grade thermometer, 4 brass bolts $\frac{1}{2}$ inch diameter for pump valves, 5 spare pump valves, five sets spare weights for valves, 11 wrenches for Morris engine, 11 finished wrenches for Worthington engine, 3 sledge hammers, 10 drills assorted sizes, 1 bit stock, 5 bits, 1 25-foot ladder, 1 20-foot, 18-foot, 1 pair steps, 1 hoe, 2 racks, 1 small die plate, 1 fore plane, 6 monkey wrenches, 100 feet 2 inch rope, 4 chisel bars, 6 small taps, 4 finished socket wrenches for Worthington engine, 3 14-quart iron pails, 4 hand hammers, 2 grind stones, 1 anvil, 7 pairs gas tongs, 1 wrench, 11 finished wrenches, 1 clock, 1 set Walworth's solid dies from $\frac{1}{4}$ inch to 2-inch right and left, 2 die stocks and bushings, 2 sets 2 shive blocks, 3 pieces $\frac{5}{8}$ inch chain, 1 24-inch elbow for Worthington force main, 1 $2\frac{1}{4}$ ratchet wrench for 30-inch gate river crossing, 1 scythe, 1 snath, 7 chairs, 1 desk, 1 table.

Tools at Reservoir.

1 iron tooth rake, 1 hay fork, 3 shovels, 1 ax, 1 piece 1-inch rope, 2 hoes, 1 scythe, 1 snath, 1 grass hook, 8 wheelbarrows, 3 thermometers, 1 snow shovel, 1 stop gate wrench, 1 sidewalk wrench, 1000 feet second hand lumber, 2 spare screens, 20 lbs. nails, 1 coal stove, 1 bracket lamp, 1 lantern, 1 pick, 1 ice chisel.

Tools at Filter Inlet.

2 iron tooth rakes, 11 shovels, 1 rammer, 1 ax, 2 ice chisels, 1 stop gate wrench, 1 nail hammer, 1 pick, two brooms, 1 wheelbarrow.

Property in Water Board and Superintendent's Office.

12 chairs, 4 high stools, letter press, 7 desks with drawers, 3 standing desks, 2 office tables, 1 bookcase, 1 book rack, 1 bill cabinet, 6 inkstands, 1 clock, 1 glass mug, 3 waste baskets, 3 spittoons, 4 wrenches, 1 pick, 1 map of water distributing pipes, 2 mats, 1 lantern, water gauge, 1 apparatus for gates, 1 screw driver, 1 safe, 1 key rack, 1 atlas of Lowell, 1 black walnut bookcase, 1 instrument for testing capacity of engines.

SUMMARY OF STATISTICS,

AS SUGGESTED BY THE NEW ENGLAND WATER WORKS ASSOCIATION.

Lowell Water Works, Lowell, Mass.

Population in 1885, 64,051

Constructed in 1872 ; owned by the City of Lowell.

Source of supply is Merrimack River.

Mode of supply is by pumping and consists of one Morris pump and one Worthington pump, of 5,000,000 gallons capacity each.

The kind of fuel used is Powelton Bituminous coal.

Cost of coal is \$4.17 per ton of 2240 lbs.

	MORRIS PUMP.	WORTHINGTON PUMP.
Total coal consumed . . .	1,961,240 lbs.	480,180 lbs.
Total water pumped	1,093,415,360 gals	206,314,920 gals.
Average head pumped against .	162.3 ft.	160.76 ft.
No. of gals. pumped per lb. of coal	558 gals.	430 gals.
Duty	75,409,571 “	57,564,938 “
Cost of raising per million gals.	\$7.12	\$8.22

Financial.

RECEIPTS.	EXPENDITURES.
Water rates \$151,956.79	Construction . . . \$ 15,455.03
Services, meters, etc. . . 6,000.00	Maintenance . . . 47,156.62
Appropriation 3,000.00	Meters 1,418.59
Loan 15,000.00	Interest 111,850.00
Total \$175,956.79	\$175,880.24

CONSUMPTION.

Total number of gallons consumed for the year.....	1,299,766,280
Average daily consumption.....	3,561.000
Gallons per inhabitant.....	55.

DISTRIBUTION.

Cast iron pipe is used from 4 inches to 30 inches diameter :

Extended in 1885.....	10,853 ft.
Total in use.....	79.25 miles.
Hydrants in use.....	760
Stop gates.....	552
Blow offs.....	13
Greatest pressure	70 lbs.
Number of services in use.....	6913
Number of meters in use.....	1421

Analyses of Lowell City Water, made by S. Cabot, Chemist, July 10th, 1885.

WATERS.

	AMMONIA.		NITROGEN AS		
	Free.	Alb'd.	Chlorine.	Nitrates.	Solids.
Lowell City Water, . C.	0.03	0.13	4.107	2.0617	2.740
Gallery, . . G.	0.14	0.105	4.107	Traces.	3.615
River, . . R.	0.05	0.14	3.422	Traces.	3.324
Cochituate, .	0.027	0.27	6.844	0.0741	7.581
Parts per million.				Grains per gal.	

SEDIMENTS.

	AMMONIA.		Total Solids.	Volatile Matter.
	Free.	Alb'd.		
Conduit Bottom, . C. B.	17.32	119.50	65.95	4.266
Conduit Sides, . C. S.	92.00	177.50	17.10	0.296
River Mud, . . R. M.	33.33	165.50	57.29	1.787
Gallery Sides, . G. S.	12.00	137.50	6.32	1.081
Gallery Bottom, . G. B.	6.66	15.50	3.84	0.258
Parts per million.			Parts per hundred.	

SAME CALCULATED ON MILLION PARTS SOLIDS.

	AMMONIA.	
	Free.	Alb'd.
Conduit Bottom, . . C. B.	26.26	181.19
Conduit Sides, . . C. S.	538.01	1038.01
River Mud, . . R. M.	58.17	288.88
Gallery Sides, . . G. S.	189.87	2174.63
Gallery Bottom, . G. B.	173. 44	403.64

ANNUAL REPORT
OF THE
POLICE DEPARTMENT
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

IN BOARD OF ALDERMEN, Dec. 31, 1885.

Read and ordered on file.

SAMUEL M. CHASE,
City Clerk.

REPORT.

TO THE HONORABLE THE MAYOR AND CITY COUNCIL:

Gentlemen :

In compliance with the City Ordinances, I herewith submit my first annual report of the doings of the Police Department for the municipal year commencing December 1st, 1884, and ending November 30, 1885.

The force as now organized consists of sixty-two regular officers, rank and file, and nine supernumeraries, making a total of seventy-one, including janitor.

During the year the following changes have been made: James E. Webster promoted from the ranks to day Sergeant, that office having been abolished in 1883. Charles Gregg, promoted from the ranks to night Sergeant, in place of William B. Moffatt, detailed to patrol duty. George R. Davis promoted to night Sergeant in place of Alonzo J. Page, detailed to patrol duty. Charles Laflamme, promoted from the ranks to Inspector, in place of Daniel W. Lane, detailed to patrol duty. James A. McQuade, detailed as Keeper, in place of Isaac L. Libby, now acting as Court Officer and Janitor. William G. Bumps, detailed as Warrant Officer, to fill the place

made vacant by the election of City Marshal.

DISCHARGED AND RESIGNED.

During the year three regular officers have resigned to go into other business, two have been discharged for cause by the Board of Aldermen, and six supernumeraries have been honorably discharged on account of surplus.

SUSPENSIONS AND FINES.

Three regular officers have been suspended, and one fined two hundred dollars, for cause.

APPOINTMENTS.

No appointments have been made during the year. Never has there been a year before during my twenty-six years' service in the department, that there have not been more or less appointments. The latter part of last year the force was increased on account of a Police Telegraph being introduced into the department. The present City Government, ordering it discontinued, left a surplus of officers, hence I have had no occasion to ask for new appointments. The force is divided into squads as follows :

AT HEADQUARTERS.

Marshal, Deputy Marshal, two Warrant Officers, four

Inspectors report for duty at 8 a. m., and are relieved 7.30 p. m.

DAY PATROL.

One Sergeant and twelve Patrolmen go on duty at 8 a. m., and remain on duty until 7 p. m. Each officer is allowed one hour for dinner, being relieved by officer on next beat.

NIGHT PATROL.

One Sergeant and thirty-one Patrolmen go on duty at 7 p. m., remaining on duty until 5 a. m., forty minutes being allowed in the station for lunch. One Sergeant and four Patrolmen go on duty at 11 p. m., and remain on duty until 8 a. m., at which time they are relieved by the day men.

ROLL OF DEPARTMENT.

Name.		Birthplace.	Entered Service.
JACOB G. FAVOR,	City Marshal,	New Hampton, N. H.	1859
FRANK WOOD,	Deputy Marshal,	Halifax, N. S.,	1883
CHARLES HOWARD,	Deputy Marshal,	Lowell, Mass.,	1871
DANIEL W. HAYES,	Inspector,	Bradford, Vt.,	1874
CHAS. LAFLAMME,	"	Canada,	1881
FRANK GOODWIN,	"	Newport, N. H.	1872
ALEX. W. HARPER,	"	Lowell, Mass.,	1880
JAMES E. WEBSTER,	Sergeant,	Conway, N. H.,	1865
CHARLES GREGG,	"	Franklin, N. H.,	1880
GEORGE R. DAVIS,	"	East Corinth, Me.,	1881
P. T. CORCORAN,	Warrant Officer,	Ireland,	1880
WILLIAM G. BUMPS,	"	Thorndike, Me.,	1881
LEVI BROWN,	Keeper,	Stanstead, Canada,	1852
JAMES McQUADE,	"	Lowell, Mass.,	1880

DAY PATROL.

BEALS, CYRUS M.	Greene, Me.,	1882
ELLIOTT, ALBERT F.	Haverhill, N. H.,	1882
FARRINGTON, HENRY	Stow, Me.,	1871
GARDNER, WILLIS L.	Whitefield, Vt.,	1880
GRINNELL, ENOCH N.	New Bedford, Mass.,	1881
KEW, WILLIAM R.	Whitefield, Vt.,	1880
LIBBY, ALBERT E.	Hartford, Me.,	1864
LANE, DANIEL W.	Harwick, Mass.,	1879
SANBORN, THOMAS J.	Sanbornton, N. H.,	1858

TILTON, JOHN W.	Lowell, Mass.,	1871
WALSH, JOHN A.	Lowell, Mass.,	1883
McLAUGHLIN, JAMES	Ireland,	1875

NIGHT PATROL.

ALLEN THOMAS E.	Lowell, Mass ,	1881
BLOOD, JOSIAH	Whitefield, N. H.,	1882
BOYLE, JAMES	Lowell, Mass.,	1884
COLLINS, CORNELIUS E.	Lowell, Mass.,	1879
CHENEY, EUGENE B.	Nashua, N. H.,	1881
CAWLEY, PETER	Rutland, Vt.,	1884
CREAHIN, JOHN	Ireland,	1884
DUNLAVY, JAMES	Newburyport, Mass.,	1880
DUNLAVY, GEORGE F.	Lowell, Mass.,	1880
DURROUGH, JOHN	Scotland,	1880
FITZPATRICK, PATRICK	Ireland,	1881
FLAHERTY, JOHN J.	Lowell, Mass.,	1883
FURLONG, JOHN C.	Whitefield, Me.,	1879
FOX, EDWARD	Ireland,	1884
GOODHUE, DAVID H.	Enfield, N. H.,	1855
GRADY, WILLIAM H.	Lowell, Mass.,	1881
GALLIVAN, DENNIS F.	Lowell, Mass.,	1881
HICKSON, JOHN	Ireland,	1880
HOLMAN, ALFRED W.	York, Me.,	1881
HOLLAND, JAMES E.	Philadelphia, Pa.,	1881
HOWARD, CORNELIUS	Ireland,	1884
INGALLS, THOMAS	Salem, Mass.,	1859
JONES, WILLIAM B.	St. Lawrence Co. N. Y.,	1879
McNABB, JAMES	Lowell, Mass.,	1879
MOFFATT, WILLIAM B.	Ireland,	1881
MARSHALL, GEORGE W.	Lowell, Mass.,	1884
O'DONNELL, PETER F.	Lowell, Mass.,	1881
O'CONNELL, JOHN	Ireland,	1882
PAGE, ALONZO J.	Livermore, Me.,	1869
PIKE, HENRY C.	Sebago, Me.,	1879

RING, THOMAS F.	Charlestown, Mass.,	1879
RILEY, JAMES	Ireland,	1881
STREETER, HERBERT P.	Lowell, Mass.,	1881
TILTON, HERMAN N.	Lowell, Mass.,	1873
VARNUM, JOSEPH B.	Dracut, Mass.,	1881
LIBBY, ISAAC L.	Court Officer and Janitor.	

SUPERNUMERARIES.

BREAULT, ELOI N.	Canada,	1884
DUMPHEY, JOHN H.	Cambridge, Mass.,	1884
DOHERTY, JOHN J.	Wheeling, Va.,	1884
DENNETT, JOHN S.	Hopkington, N. H.,	1884
McCARRON, WILLIAM.	Ireland,	1884
MCDONALD, JOHN H.	Ireland,	1884
McKAY, JOHN H.	Lowell, Mass.,	1884
McINTEE, CORMACK	Ireland,	1884
PROVENCHER, NAPOLEON	Milbury, Mass.,	1884

The following statistics will show in detail the work of the department from Dec. 1, 1884, to November 30, 1885 :

Whole number admitted for lodging.....3,393

Males.....	3,343
Females.....	50
Foreigners.....	1,992
Americans.....	1,401
Minors.....	168
Non-residents.....	3,336
Colored.....	9

Whole number Arrested.....2,771

Males.....	2,234
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Females.....	537
Foreigners	1,595
Americans	1,176
Minors,.....	473
Non-residents.....	529
Colored.....	6

CAUSES OF ARRESTS.

Selling goods without license.....	1
Common Drunkard.....	42
Drunkenness, second offence.....	155
Drunkenness, third offence.....	94
Drunkness	1,391
Assault and Battery.....	161
Breaking and Entering.....	21
Disturbing the Peace.....	13
Larceny.....	210
Vagrancy	32
Breaking Glass.....	28
Unlawfully Taking and Driving a Horse.....	2
Adultery	16
Fornication.....	15
Violation City Ordinance.....	5
Obtaining Goods by False Pretences.....	2
Malicious Mischief.....	9
Stubborn Children.....	31
Embezzlement.....	8
Forgery	1
False Answer to Stable-Keeper.....	1
Doing Business on Lord's Day.....	11
Unlawfully Keeping Liquor.....	27
Keeping Liquor Nuisance.....	2
Unlawful Sale of Liquor.....	43
Capias.....	7

Perjury	1
Nightwalker	2
Unlawful Sale of Liquor to a Minor.....	5
Unlawful Sale of Liquor on Lord's Day.....	6
Safe Keeping... ..	103
Suspicious Person.....	64
Idle and Vicious.....	5
Discharging firearms in City.....	1
Witness	1
Insane	16
Violation of Vault Ordinance.....	4
Unlawfully Bathing in City.....	3
False Registration.....	3
Truancy	44
Wandering about Street.....	3
Felonious Assault.....	3
Playing Game on Lord's Day.....	4
Selling Morgaged Property.....	1
Concealing Mortgaged Property.....	1
Using Threatening Language.....	14
Bastardy	15
Evading Car Fare.....	4
Selling adulterated Food.....	17
Obstructing Street.....	22
Surrendered by bail.....	5
Disturbing Religious Worship.....	7
Lewd and Lascivious.....	1
Neglecting Family.....	10
Illegally Moving baggage.....	12
Violation Screen Law.....	13
Abandoning Child.....	3
Unlawful Fishing.....	2
Escaped Prisoner.....	15
Cruelty to a Horse.....	4
House of Ill-fame.....	1

Interfering with Officer.....	3
Murder	2
Trespass.....	14
Misplacing Railroad Switch.....	2
Setting Fire Woodlands.....	1
Indecent Exposure of Person.....	1
Recommitted to House of Correction.....	1

Whole number of Prosecutions before the Police Court.....2,208

FOR THE FOLLOWING OFFENCES.

Common Drunkard.....	41
Drunkenness, second offence.....	151
Drunkenness, third offence.....	95
Drunkenness	1,093
Assault and Battery.....	162
Breaking and Entering.....	30
Disturbing the Peace.....	12
Larceny.....	190
Vagrancy	31
Breaking Glass.....	27
Unlawfully Taking and Driving a Horse.....	2
Adultery	14
Fornication.....	13
Common Nightwalker.....	2
Obtaining Goods by False Pretences.....	6
Malicious Mischief.....	8
Disobedient Children	29
Embezzlement.....	8
Forgery	1
Perjury.....	1
Doing Business on Lord's Day.....	12
Unlawfully Keeping Liquor.....	25
Keeping Liquor Nuisance.....	2
Unlawful Sale of Liquor.....	42

Unlawful Sale of Liquor to a Minor.....	4
Unlawful Sale of Liquor on Lord's Day.....	5
Setting Fire to Woodlands.....	1
Idle and Vicious.....	5
Witness.....	1
Violation of Vault Ordinance.....	4
Truancy.....	21
Playing Game on Lord's Day.....	4
Selling Mortgaged Property.....	1
Concealing Mortgaged Property.....	1
Using Threatening Language.....	12
Bastardy.....	12
Evading Car Fare.....	3
Selling Adulterated Food.....	16
Obstructing Street.....	24
Disturbing Religious Meeting.....	7
Lewd and Lascivious.....	1
Neglecting Family.....	12
Violating Screen Law.....	13
Wandering about Streets.....	3
Abandoning Child.....	3
Unlawful Fishing.....	2
Cruelty to a Horse.....	4
Illegally Removing Baggage.....	10
Interfering with Officer.....	3
Murder.....	2
Felonious Assault.....	3
Trespass.....	9
False Answer to Stable-Keeper.....	1
Violation City Ordinance.....	5
False Registration.....	4
Misplacing R. R. Switch.....	2
Discharging firearms in City.....	1
Indecent Exposure of person.....	1

Whole number found Not Guilty, and discharged by

Court37

FOR THE FOLLOWING OFFENCES:

Lewd and Lascivious.....	2
Threatening	2
Larceny.....	12
Violation Lord's Day.....	1
Breaking Glass.....	5
Obstructing Street.....	1
Malicious Mischief.....	1
Evading Car Fare.....	1
Illegally Keeping Liquor.....	1
Violation Vault Ordinance.....	1
Abandoning Child.....	1
Illegally Removing Baggage.....	1
Drunk.....	1
Assault and Battery.....	7

Whole number City Ordinance Cases.....55

FOR THE FOLLOWING OFFENCES:

Obstructing Street.....	18
Wandering about Streets.....	2
Truancy	22
Violation Vault Ordinance.....	5
Discharging Firearms in City.....	1
Violation City Ordinances.....	5

Amount of money taken from, and returned to, Persons

Committed..... \$3,489 50

ORDINANCE CASES REPORTED.

Defective Street and Sidewalk.....	386
Defective Lamps and Burners.....	1,553

Defective Gas Pipes.....	3
Defective Cess-pools.....	10
Defective Hydrants.....	2
Obstructions removed from Street and Sidewalk....	90
Assisted home drunk.....	271
Disturbances quelled without arrest.....	281
Drains, Vaults, and Nuisances reported.....	49
Lost Children returned to parents.....	41
Stray Teams put up at stable.....	41
Store Doors found Open, and secured.....	234

FINANCIAL STATEMENT.

The following is a statement of the receipts and expenditures of the Department:—

Balance on hand Jan. 1, 1885.....	\$ 4,185 98	
Appropriated in 1885.....	52,000 00	
Receipts in 1885.....	11,514 47	
		<hr/>
		\$67,700 45
Total Expenditures.....	\$67,015 41	
Balance on hand Jan. 1, 1886.....	685 04	
		<hr/>
		\$67,700 45
Total expenditure above receipts.....		<hr/> <hr/>
		\$55,500 94

The Warrant Officers earned for the use of the city, on Warrants and Mittimuses as follows:—

Peter T. Corcoran.....	\$3,826 57	
William G. Bumps.....	3,359 29	
		<hr/>
Total.....		\$7,185 86

LIQUOR PROSECUTIONS.

Prosecutions have been made against all persons known to be engaged in the illegal sale of intoxicating liquor when sufficient evidence could be obtained to reasonably warrant a conviction. But few persons are aware of the difficulty of convicting this class of offenders. The best counsel is employed to defend them, and it is not uncommon for two or three witnesses to testify for defendant to one for the Government when cases are presented to Court for trial. The following is the work of the liquor squad for the year :

Prosecution of liquor law in various forms,	97
Number found not guilty.....	3
Visit to licensed places.....	2,596
Amount of fines imposed.....	\$5,295 00
Amonnt of costs.....	1,101 22
Witness fee earned.....	273 40
Total.....	<hr/> \$6,669 62

PROBATION OFFICER.

I desire to make some comment on the services of probation Officer Thomas R. Garity, my relations with him during the last year have been pleasant and harmonious. I have always found him ready and willing to respond to any call either by the Officers or Court. Never taking a person on probation without first consulting with both officers and the Judge. Always surrendering the party on probation when becoming convinced they had violated the terms of their probation.

He has attended many sessions of Court and spent much time in investigating cases brought to his attention. I think his services are productive of much good.

CONCLUSION.

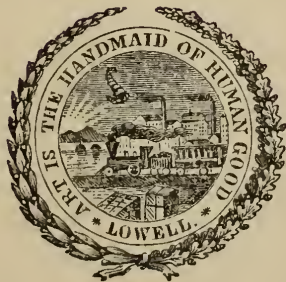
I am much indebted to the Deputy Marshal, Captain, Sergeants, Inspectors and the Force generally for their efficient aid and cheerful disposition to work together for the good of the department. And I think I can truly state that a harmonious feeling now prevails throughout the department, a condition which in my judgment is very essential for the success and effectiveness of any Police Department. I desire to return thanks to all with whom I have had official relations during the past year and especially to his Honor the Mayor, and Aldermen Francis, Stanley and Penniman, Committee on Police, for the kind and courteous treatment I have received at their hands. Also to the Judge and Clerk of the Police Court for Council and advice in cases brought to the Court for trial.

JACOB G. FAVOR,

City Marshal.

ANNUAL REPORT
OF THE
CITY SOLICITOR

OF THE
CITY OF LOWELL, MASS.,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

IN COMMON COUNCIL, March 23, 1886.

Read and sent to the Board of Aldermen.

DAVID CHASE,

Clerk.

IN BOARD OF ALDERMEN, March 30, 1886.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

REPORT.

OFFICE OF CITY SOLICITOR,

LOWELL, Feb. 28, 1885.

TO THE CITY COUNCIL :

Gentlemen,—As required by an ordinance of the City of Lowell, I submit the following report of the suits, actions and proceedings, in which the City of Lowell was a party, pending during the year ending with this date. The following were pending March 1, 1885 :

MIDDLESEX COMPANY V. CITY OF LOWELL,

(Relating to the Andover, Church and Pond St. Sewers.)

MIDDLESEX COMPANY V. CITY OF LOWELL,

(Relating to the Intercepting Sewer.)

JOHN M. PEVEY, *et al.* V. CITY OF LOWELL.

MARIA T. STEVENS V. CITY OF LOWELL.

JULIA A. BUTTERFIELD V. CITY OF LOWELL.

SOLOMON BACHMAN V. CITY OF LOWELL.

HERBERT E. WEBSTER, Adm'r, V. CITY OF LOWELL.

SHAW STOCKING COMPANY V. CITY OF LOWELL.

ANN ASHWORTH V. CITY OF LOWELL.

KATE CUNNANE V. CITY OF LOWELL.

MARTHA W. SMITH v. CITY OF LOWELL.

JAMES GUILLINE Adm'r, v. CITY OF LOWELL.

JOHN L. MOULTON v. CITY OF LOWELL.

CYRUS JOHNSON v. CITY OF LOWELL.

MOSES P. SILAS v. CITY OF LOWELL.

DANIEL GAGE v. CITY OF LOWELL.

CLARINDA OTIS v. CITY OF LOWELL.

MARY CHOATE v. CITY OF LOWELL.

INCREASE S. RICHARDSON v. CITY OF LOWELL.

INCREASE S. RICHARDSON v. CITY OF LOWELL.

INCREASE S. RICHARDSON v. CITY OF LOWELL.

JOHN M. RICHARDSON v. CITY OF LOWELL.

JOHN M. RICHARDSON v. CITY OF LOWELL.

JOHN M. RICHARDSON v. CITY OF LOWELL.

CHARLES RUNELS v. CITY OF LOWELL.

ROSA FOLEY v. CITY OF LOWELL.

SUSAN ROGERS v. CITY OF LOWELL.

FRANK COX *et al*, v. CITY OF LOWELL.

J. Q. A. HUBBARD v. CITY OF LOWELL.

JULIUS V. ADAMS v. CITY OF LOWELL.

ELIZABETH BUTLAND v. CITY OF LOWELL.

CHRISTMA C. AUSTIN v. CITY OF LOWELL.

ELLA RICHARDS v. CITY OF LOWELL.

MIDDLESEX COMPANY v. CITY OF LOWELL.

This was a bill in equity brought to compel the discontinuance of discharge by the Andover Street, the Church Street and the Pond Street Sewer systems into the mill pond of the Middlesex Company. After the filing of the bill, the Church Street system was connected with the new Intercepting Sewer so-called, and ceased to empty at the former outlet. The Honorable John W. Hammond was appointed Special Master to hear the parties. A protracted hearing was had before him. After his report shall be returned to the Supreme Court, a hearing will be had before that tribunal and thereafter, without doubt, it will be neces-

sary for the full Bench to settle disputed questions of Law.

MIDDLESEX COMPANY v. CITY OF LOWELL.

This was a second bill by the Middlesex Company brought to compel the City of Lowell to remedy an alleged nuisance arising from deposits of the Intercepting Sewer at its outlet, under the boiler house of the plaintiff, in the Concord River below the dam. Judge Hammond was also designated as Special Master in this case, and heard the parties at some length. As in the preceeding matter no report has yet been filed—and no final settlement can fairly be anticipated before the law term of the Supreme Court.

JOHN M. PEVEY *et al*, v. CITY OF LOWELL.

No progress has been made in the adjustment of the claim of the petitioners.

The tender of the City having been made and rejected, it was thought if further negotiation was desirable it should be initiated by the petitioners.

MARIA T. STEVENS v. CITY OF LOWELL.

JULIA A. BUTTERFIELD v. CITY OF LOWELL.

SOLOMON BACHMAN v. CITY OF LOWELL.

In these three cases, nothing has been done during the year.

HERBERT E. WEBSTER Am'r, v. CITY OF LOWELL.

The Tremont and Suffolk Mills assumed the defence of this proceeding, according to the terms of the agreement made

with the City at the time when the cause of action arose. The plaintiff claimed damages because of a discontinuance of a portion of Hanover Street. By a ruling in the Superior Court in 1884 without a trial there, the case went to the Supreme Court on the question, whether or not the petition could be maintained. The case came back for trial and was tried at the last September sitting of the Superior Court, resulting in an assessment of damages for the petitioner. The case returns to the Supreme Court on exceptions.

SHAW STOCKING CO. v. CITY OF LOWELL.

The terms of settlement submitted by the petitioner have not yet been accepted in behalf of the City.

ANN ASHWORTH v. CITY OF LOWELL.

JAMES GUILLINE v. CITY OF LOWELL.

JOHN L. MOULTON v. CITY OF LOWELL.

CYRUS JOHNSON v. CITY OF LOWELL.

DANIEL GAGE v. CITY OF LOWELL.

CLARINDA OTIS v. CITY OF LOWELL,

ROSA FOLEY v. CITY OF LOWELL.

None of the seven foregoing cases has been adjusted or tried. Several of them have been marked for trial during the year, but have not been reached or have been continued.

KATE CUNANE v. CITY OF LOWELL.

This case was referred to Colonel John H. George as final judge of law and fact. A hearing was had in De-

cember last. The City Solicitor objected in behalf of the City to the proceedings, alleging that the case was one proper to be decided by a jury and not by a single person, without appeal even upon questions of law. The objection was overruled and a hearing insisted upon according to the reference formally agreed to by both parties. The decision of the referee was reserved at the time of the hearing; but will undoubtedly be reported to the Superior Court at the March Sitting.

MARTHA W. SMITH v. CITY OF LOWELL.

This case was taken to the Superior Court on exceptions filed and argued by my predecessor during his term of office. A rescript has since come down sustaining those exceptions. If a new trial is had, under the new circumstances in which the case is placed by the Supreme Court decision, a disposition of the whole matter favorable to the City is anticipated.

MOSES P. SILAS v. CITY OF LOWELL.

This action was settled by the payment of the sum admitted to be owed—being \$40, increased by the cost of the suit to \$72.

MARY CHOATE v. CITY OF LOWELL.

There has been no trial of this action. If not adjusted otherwise it will probably be tried at the coming March Sitting of the Superior Court.

INCREASE S. RICHARDSON v. CITY OF LOWELL.

INCREASE S. RICHARDSON v. CITY OF LOWELL.

INCREASE S. RICHARDSON v. CITY OF LOWELL.

JOHN M. RICHARDSON v. CITY OF LOWELL.

JOHN M. RICHARDSON v. CITY OF LOWELL.

JOHN M. RICHARDSON v. CITY OF LOWELL.

The petitioners instituted proceedings to revise sewer assessments upon six different lots of land in Centralville and to recover damages for injuries received by reason of the construction of Sewers in the streets, upon which such lots of lands abut. The petitions after some controversy and negotiation were all dismissed by consent of the petitioners and the assessments were paid.

CHARLES RUNELS v. CITY OF LOWELL.

This was a petition for the assessment of damages arising from the construction of a sewer through premises occupied as a "stone yard." This case was reached late in the Superior Court in September, then continued and will undoubtedly be disposed of at the March Sitting of the Court.

SUSAN ROGERS v. CITY OF LOWELL.

Tort to recover compensation for injuries received by the plaintiff in falling on ice at the corner of Central and Warren Streets. The case was tried with a jury at the last March Sitting of the Superior Court. The jury returned a verdict for the City. A motion for a new trial, made by the plaintiff was overruled and judgment was finally entered for the defendant.

FRANK COX, *et al*, v. CITY OF LOWELL.

In the extention of Tayler Street, a part of the land and buildings thereon belonging to the petitioners was taken and included in the new street. The claim was finally adjusted out of Court by the Committee on the Taylor Street Bridge claims, a special committee of the City Council.

J. Q. A. HUBBARD v. CITY OF LOWELL.

JULIUS T. ADAMS v. CITY OF LOWELL.

Nothing has been done in these two matters during the year.

GEORGE W. NORRIS v. CITY OF LOWELL.

JOHANNA WALSH v. CITY OF LOWELL.

ANTHONY J. WALSH v. CITY OF LOWELL.

These were three actions of Tort for compensation for damages sustained by the construction of a sewer and the occupation of the premises of the petitioners during such construction, together with a claim for personal injuries sustained by one of the petitioners; all growing out of the same matter. The claims were settled by the committee on claims of the Council.

LOWELL BLEACHERY v. CITY OF LOWELL.

In 1883 Meadowcroft Street was laid out and widened. Damages were awarded by the City Council to the petitioner for land taken. This award was not accepted, principally, for the reason, that, by the entire taking of the City Council certain very valuable water rights of the Lowell Bleachery were endangered. A proposition has been made by the petitioner to accept the award, upon the construction across the street of a pipe or conduit to conduct spring water and surface water. The estimated cost of what is required is small.

ANN HINES v. CITY OF LOWELL.

This was an action of Tort to recover damages for injuries suffered by the plaintiff because of a fall upon icy sidewalk in Charles Street.

Trial by a jury resulting in a verdict for the defendant.

ISABELLA MCKENNA v. CITY OF LOWELL.

Action of tort brought to recover compensation for personal injuries received in falling upon an icy sidewalk on Bridge Street in Centralville. A trial was had at the September sitting of the Superior Court and the jury returned a verdict for the City.

ELIZABETH BUTLAND v. CITY OF LOWELL.

This was an action of tort for trespass upon premises of plaintiff and was adjusted, without trial, by the Committee on claims.

CHRISTINA C. AUSTIN v. CITY OF LOWELL.

Action of tort for damages for personal injuries resulting from a fall on Thorndike Street occasioned by a hole in the sidewalk.

Trial was had at the September Sitting of the Superior Court and the jury rendered a verdict for the City.

ELAL RICHARDS v. CITY OF LOWELL.

This was, also, an action brought to recover compensation for personal injuries, occasioned by a defective sidewalk and was settled by the Committee on Claims, without a trial.

The following actions and proceedings against the City were brought and instituted during the year closing March 1, 1886 :—

JOHANNA CLUIN v. CITY OF LOWELL.
LIZZIE MOONEY v. CITY OF LOWELL.
MARY GARRIGAN v. CITY OF LOWELL.
HENRY E. PARKER v. CITY OF LOWELL.
WILLIAM H. ANDERSON v. CITY OF LOWELL,
LAURA E. BLAKE v. OF LOWELL.
NATHANIEL ALLEN v. CITY OF LOWELL.
MARIA FLYNN v. CITY OF LOWELL.
ANN DONOHUE v. CITY OF LOWELL.
O. A. SIMPSON v. CITY OF LOWELL.
HENRY HILDRETH v. CITY OF LOWELL.
J. M. G. PARKER v. CITY OF LOWELL.
JOHN W. REED v. CITY OF LOWELL.
BERNARD RILEY v. CITY OF LOWELL.
ELIZA COWLEY v. CITY OF LOWELL.
MARY A. MCINTIRE v. CITY OF LOWELL.
JULIA SULLIVAN v. CITY OF LOWELL.
HENRY E. PARKER v. CITY OF LOWELL.
HANNAH REAGAN v. CITY OF LOWELL.
HYDE PARK v. CITY OF LOWELL.
CHARLES RUNELS v. CITY OF LOWELL.
THOS. F. HART, Pro Ami, v. CITY OF LOWELL.
MARY G. ADAMS v. CITY OF LOWELL.

JOHANNA CLUIN v. CITY OF LOWELL.
LIZZIE MOONEY v. CITY OF LOWELL.
MARY GARRIGAN v. CITY OF LOWELL.

These three cases were all actions of tort for personal injuries, caused by ice defects. They were all settled advantageously by the Committee on Claims.

HENRY E. PARKER v. CITY OF LOWELL.

This was an application for a jury to revise a sewer assessment of \$285 for benefit to the land of the petitioner indirectly accruing from the construction of the Stevens Street Sewer.

The matter came on for trial at the September Sitting of the Superior Court. The ground upon which the petitioner relied, was an alleged illegality in the laying of the Sewer. The construction of the Sewer was begun before the resolution authorizing it had been passed by the Board of Aldermen. It was expected that it would be adopted before the Sewer would be completed. Upon its passage by the Aldermen, however, it was vetoed by the Mayor. It was afterward passed by a two-thirds vote and became in force without the approval of the Mayor. The Sewer was completed before the second passage of the resolution—according to the claim of the petitioner. At the trial before the Superior Court on motion of the defendant the petition was dismissed.

WILLIAM H. ANDERSON v. CITY OF LOWELL.

This was an application for a jury, as in the preceding case, to revise a sewer assessment of \$136.00 upon other premises benefited by the Stevens Street Sewer and because of the illegal and unauthorized construction of the sewer before the final adoption of the resolution formally authorizing it.

LAURA E. BLAKE v. CITY OF LOWELL.

This was an action of tort brought to recover compensation for personal injuries caused by a fall upon an accumulation of ice and snow on Kirk Street. An offer of

settlement was made in this case, as being one calculated to excite the sympathy of any tribunal before which the case could be heard. There was undoubtedly ice upon the sidewalk, where the plaintiff fell. The accident occurred on Sunday evening, while the plaintiff was returning home from Church.

The offer of settlement was made in behalf of the City, not upon the theory that the ice, upon which the plaintiff fell, ought to be considered a defect, for which the defendant should be liable, but with the belief that the case was one in which it would be difficult, if not impossible to have a hearing entirely uninfluenced by compassion for the person still suffering from her injuries. The proposition of the defendant was rejected and a trial will probably be had at the coming March Sitting of the Superior Court.

NATHANIEL ALLEN V. CITY OF LOWELL.

This is action of tort for personal injuries alleged to have been received by falling upon a defective way. A trial will probably take place at the approaching March sitting.

MARIA FLYNN V. CITY OF LOWELL.

This is still another action for personal injuries arising, as claimed, from a fall upon an icy sidewalk. The suit was brought early in the year but no trial has yet been reached.

ANN DONOHUE V. CITY OF LOWELL.

O. A. SIMPSON V. CITY OF LOWELL.

HENRY HILDRETH V. CITY OF LOWELL.

J. M. G. PARKER V. CITY OF LOWELL.

JOHN W. REED v. CITY OF LOWELL.

BERNARD RILEY v. CITY OF LOWELL.

These six proceedings are all applications to the County Commissioners for Sheriff's Juries for the assessment of damages alleged by petitioners to have been suffered by them by reason of the diversion of the waters of Richardson Brook in Centralville. The City, by an Act of the Legislature passed in 1883, was authorized to divert the waters of the brook. With the authority, was coupled the provision: "that the said City shall pay all damages sustained by any person in property by reason of the diversion of the waters of said brook."

A resolution was adopted by the City Council of 1885, authorizing the Committee on Claims to submit the Richardson Brook Claims to arbitration.

ELIZA COWLEY v. CITY OF LOWELL.

This in an action to recover damages occasioned by the extension and grading of Taylor Street. Some improvements were made in the year 1884 upon the premises of the plaintiff in lieu of damages; but it is claimed in her behalf that the work was not properly completed and the premises were not left by the city in as good and valuable condition as before the alterations were begun.

MARY A. MCINTIRE v. CITY OF LOWELL.

By a resolution adopted October 31, 1884, Pine Street was widened. It is claimed by the petitioner that by this resolution 2182 square feet were taken by the city from her land and included in the highway, and for such land the petitioner asks for compensation. The City has not yet wrought the street the entire width as now fixed under the

resolution, and the portion of the street claimed as originally a part of the premises of the petitioner has not as yet been disturbed.

JULIA SULLIVAN V. CITY OF LOWELL.

This was an action of tort for personal injuries and the action has been discontinued upon the payment of actual costs in court, amounting to \$25.00.

HENRY E. PARKER V. CITY OF LOWELL.

This is a petition for a *writ of certiorari* filed since the dismissal of the petition for a jury hereinbefore mentioned. The proceedings have been instituted to annul the sewer assessment of \$284.00 by the Board of Aldermen upon the premises of the petitioner upon Stevens Street, upon the ground of alleged illegality of the construction of the Sewer in Stevens Street and the informality of the assessment and all the subsequent proceedings. There will probably be an early hearing upon the petition before the Supreme Court.

HANNAH REAGAN V. CITY OF LOWELL.

This is an action of tort for personal injuries alleged to have been due to a defect in the concrete sidewalk on Lawrence Street.

HYDE PARK V. CITY OF LOWELL.

This is an action of contract to recover from the City of Lowell a small sum for the temporary support of a pauper supposed to have a settlement in Lowell.

CHARLES RUNELS V. CITY OF LOWELL.

Two actions have been brought, one of contract and one of tort. The plaintiff claims that by an agreement with the Superintendent of Streets he is entitled to receive compensation for the use of an engine and of certain implements at the time of the construction of the sewer across premises occupied by him and hereinbefore mentioned. The action of tort was brought to recover such damages as were not properly assessable under his petition for a jury, being such damages as were inflicted by the servants of the city during the construction of the sewer, but not necessary and legitimately growing out of such construction.

THOMAS F. HART, pro ami, v. CITY OF LOWELL.

This is an action of tort brought in behalf of a minor by his next friend to recover compensation for personal injuries occasioned by the defective condition, as alleged, of Keene Street.

MARY J. ADAMS v. CITY OF LOWELL.

This is also an action of tort for personal injuries, with a claim that a Cinder Sidewalk on West Sixth Street was in a defective condition.

CITY OF LOWELL v. NANCY LEWIS.

This action was brought to recover the sum of \$62.00 for temporary aid furnished to the defendant by the Overseers of the Poor. The suit was settled without trial by the payment of the sum paid out by the Overseers.

The City docket has never been so large as during the year ending with this date. The business of this office has increased with the increase of the City in

area of streets and in extent of population. Still, the sudden multiplication of suits and causes of suits have been greater than the regular, steady development of our municipality would seem to warrant. With the utmost care and prudence on the part of every department of municipal management, a city of seventy thousand inhabitants must always encounter litigation. Every new improvement, every taking of land or other property for a street or a sewer is likely to end with a settlement in the Courts between contractors and property owners and the city. There is another fruitful source of litigation—Statute defects in the streets. There are more than a hundred miles of sidewalks in Lowell, and at all seasons of the year, accidents upon them continually occur. Every winter many people fall upon ice defects and are severely injured. The law requires every person so injured who intends to make a claim against the City, to notify some official specified in the Statute within thirty days of the reception of his injury.

Such notice of defects are seldom given, until three or four weeks after the injuries are received, and are consequently of little value to the City, so far as the information they contain is concerned. In case the defect complained of is ice, a notice to be valuable, should be received within a day or two after an accident has occurred.

What is required imperatively is a special detective officer, whose business, the year round, should be to look after defective sidewalks and persons who are or claim to be injured by such sidewalks. Such an of-

ficer would save for the City many times his wages or salary, every year.

Mr. H. C. Pike of the police force has been detailed at times during the year for this service and has been faithful and efficient. All the heads of Municipal departments have cordially co-operated with the City Solicitor in the discharge of the duties of this office.

Respectfully submitted,

GEORGE F. LAWTON,

City Solicitor.

ANNUAL REPORT
OF THE
OVERSEERS OF THE POOR.

OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.

WITH ACCOMPANYING PAPERS.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

ANNUAL REPORT
OF THE
SUPERINTENDENT
OF
INSTITUTIONS AT CITY FARM.
DEC. 31, 1885.

REPORT OF THE SUPERINTENDENT.

INSTITUTIONS AT CITY FARM,

LOWELL, Dec. 31, 1885.

To the Board of Overseers of the Poor of the City of Lowell:

Gentlemen:—The close of another year reminds me of my duty to present to you a report of the condition of the Institution and its history for the past year, together with its statistics. This Institution, like all others of its size and kind, has many wants, and it is not necessary for me to enumerate them here.

The number of inmates in the Almshouse January 1, 1885 was 316; 162 males and 154 females. During the year there were admitted 377; 212 males and 165 females, making the whole number for year, 693. Of this number there were discharged 426; 237 males and 189 females, leaving the number remaining Dec. 31, 1885, 267; 138 males and 129 females. The average number supported for the year was 250. There were during the year eight births in the almshouse; three males and five females. Of those discharged from the Almshouse, fifty-three died; thirty-one males and twenty-two females, of the following diseases: Consumption 14, Debility 8, Old age 2, Paralysis 9, Croup 2, still-

born 1, Apoplexy 3, Dropsy 2, Canker 1, Cholera infantum 4, Scrofula 2, Bright's Disease 1, Fits 1, Gastric Fever 1, Pistol Wound 1, Exposed 1.

INSANE.

The number of insane in the Almshouse January 1, 1885, 81; 22 Males and 59 females. During the year three were admitted, 35; 12 males and 23 females, making the whole number for the year 116; 34 males and 82 females. Of this number there were discharged during the year 35, leaving the number remaining Dec. 31, 1885, 81; 22 males and 59 females. Of the number of insane discharged, there were 12 that died.

The above statistics of the insane are also included in those of the Almshouse; the number of deaths in the Almshouse (53), covers all the Institutions. The whole number in the various Institutions during the year being 924. The general health of the inmates has been good. No epidemic or unusual sickness has prevailed; early measures were taken against the introduction of Small Pox, by the vaccination of every person. Dr. Colton has given prompt attention during the year.

WORKHOUSE.

The number of inmates January 1, 1885, was 56; 24 males and 32 females. The number committed during the year was 107; 38 males and 69 females.

Of this number there were discharged during the year, 124, making the whole number 163; 62 males and 101 females, leaving the number Dec. 31, 1885, 39; 16 males and 23 females. The average number supported during the year was 30. The number pardoned during the year was 6. The number of commitments was as follows: 53 for drunkenness, 12 for second offence, 21 for third offence, 13 common drunkards, 5 for larceny, 1 vagrant, assault and battery 1. The longest sentence was one year. the shortest for ten days. The oldest person committed was 70 years, the youngest 16 years. Of those committed 54 were born in Ireland, 31 in America, 12 in England, 7 in Scotland, 2 in Canada, 1 in Halifax.

EXPENDITURES.

The average number supported in the Almshouse being 250; in the workhouse 30; in the House of Employment for juvenile offenders, 37; the whole average number supported in all the institutions 317. The amount of bills paid for all expenses at the institutions at the City Farm, was thirty-six thousand eight hundred and twenny-two dollars and fifty-five cents, (\$36,822.55) From this amount I deduct the following items: eight thousand nine hundred and ten dollars and sixty-two cents (\$8,910.62) the value of four thousand nine hundred and forty four provion orders, delivered as per order of the Secretary of the Overseers of the Poor. Four hundred ninety-four dollars forty cents, the value

of paper bags and delivery of the same. \$688.81 the amount received from sales from the farm. \$3.853.45, the amount for board of persons in the institution, \$1, 436,40 coal and provisions on hand, which leaves the actual cost of the support of the City's poor \$22,038.87, a yearly cost of \$69.68, or a weekly cost of \$1.33.

REFORM SCHOOL.

For statistics of the Reform School, I refer you to the report of the Teacher.

I tender to the Officers my kindest regards. I am deeply grateful to the gentlemen of the Board of Overseers for the encouragement I received from them.

Respectfully,

ALBERT PINDAR,

Superintendent.

ANNUAL REPORT
OF THE
TEACHER AND CHAPLAIN
AT THE CITY FARM.

DEC. 31, 1885.

REPORT OF TEACHER AND CHAPLAIN.

To the Board of Overseers of the Poor :

Gentlemen, — In compliance with the established custom, I submit the following report of school work for the past year (1885):

Whole number instructed during the year.....	210
Males.....	177
Females.....	33
Attending school Jan. 1. 1885.....	118
Admitted to school during the year....	92
Discharged during the year.....	110
Attending school at present.....	98
Average monthly attendance.....	106
Greatest attendance for any one month (February)...	120
Smallest attendance for any one month (December)...	88
Pupils sent by the courts:—	

From Lowell.....	24
From other cities and towns.....	13

Committed for:—

Truancy	28
Larceny.....	6
Vagrancy	1
Stubbornness.....	1
Average age on admission.....	10 years.

Twenty boys have been pardoned. One of them returned on a new sentence, and two have been sent back, as their parents were unable to provide for them.

The summer vacation was spent as usual in working on the farm, weeding and hoeing, on an average of about six hours a day.

The boys have enjoyed excellent health during the year.

Religious services have been held every Sunday forenoon and afternoon, in the school-room.

Respectfully submitted,

FLORENCE J. O'DONOGHUE,

Teacher and Chaplain.

ANNUAL REPORT
OF THE
FREE DISPENSARY PHYSICIANS

DEC. 31, 1885.

REPORT OF DISPENSARY PHYSICIANS.

FREE DISPENSARY ROOMS,

LOWELL, February, 1886.

To the Overseers of the Poor of Lowell :

*Gentlemen :—*The Board of Physicians of the Lowell Free Dispensary present to you their report for 1885. The following twelve Physicians were chosen by you one year ago to attend to patients at the Dispensary : Drs. Allen, Colton, H. J. Smith, Eaton, Ricker, Viles, C. P. Spalding, W. F. McOwen, J. F. Sullivan, Perkins, Patterson and Huntress. Of these Drs. Perkins and W. H. McOwen resigned their positions during the year and their places were filled by Drs. W. A. Johnson and T. E. McOwen.

Last summer your Board gave permission to the Dispensary Physicians to procure necessary instruments and a gynæcological table at an expense of about fifty dollars. In thanking you for your kindness we take the liberty to assure you that the money was judiciously expended.

We have been busy the whole year as our records, and the records of our Drug Clerk will show. The

Drug Clerk put up during the year 5959 original prescriptions, and repeated 2231 prescriptions, a total of 8190 prescriptions.

We have attended 834 cases in the Dispensary, of which the diagnosis has been entered in our record book in 647 cases.

The following table shows the principal diseases treated here, and the number of cases of each :

Bronchitis.....	90
Accident.....	47
Phthisis.....	35
Rheumatism.....	31
Debility.....	30
Syphilis.....	20
Dyspepsia.....	19
Ulcers.....	17
Gonorrhœa.....	14
Ascarides.....	13
Pleurisy.....	13
Heart, disease of.....	12
Leucorrhœa.....	12
Amenorrhœa.....	11
Eczæma.....	10
Constipation.....	9
Diarrhœa.....	9
Conjunctivitis.....	8
Abscess.....	6
Asthma.....	6
Uterus, disease of.....	5
Scrofula.....	5
Cystitis.....	5
Tonsillitis.....	5
Liver, Disease of.....	4
Hæmorrhoids.....	4

We would extend our thanks to Messrs. Cushing, Quinn and Dudley the Dispensary Committee of your Honorable Board for the readiness they have shown in responding to our requests and suggestions and to our drug clerk, Thomas C. Walker for the faithfulness with which he has discharged all his duties.

Respectfully submitted,

LEONARD HUNTRESS, JR.

Secretary for the Board.

ANNUAL REPORT
OF THE
SECRETARY OF OVERSEERS OF THE POOR.

DEC. 31, 1885.

REPORT OF SECRETARY OF OVERSEERS.

OFFICE OF OVERSEERS OF THE POOR,
LOWELL, Dec. 31, 1885.

To the Board of Overseers of the Poor :

Gentlemen,—I most respectfully submit the annual report of this office for 1885. During the past year the demand for aid from this department has been large, owing to various causes, one of which is the dull times through which we have passed. The best treatment of pauperism is that which aims at its prevention. We have with us the worthy poor who are compelled by circumstances over which they have no control to ask aid from the City. We have also those who by intemperance and idleness make themselves and those who are dependent on them for support, paupers, and the City is obliged to aid them year after year. Our poor are well cared for. A wise discrimination however is essential to the best result, which can only be brought about by thorough investigation of all applicants for aid. The Secretary has endeavored to aid those who after investigation were found in need of assistance and not able to care for themselves.

The report of the year is as follows:—

Aided 939 families (3,164 persons) amounting to \$16,015,50	
No settlement in Lowell, 167 families (606 persons amounting to.....	1,965,50
Children who are cared for by the City outside of	
Almshouse	46
At Young Woman's Home, Lowell.....	2
At St. Peter's Orphan Asylum Lowell.....	11
At City Orphan Asylum, Salem.....	2
At City Orphan Asylum, Lawrence.....	2
Living in different families.....	29
Persons sent to State Almshouse.....	156
Orders for Ward Physicians.....	613
Ward One had.....	152
Ward Two had.....	87
Ward Three had.....	94
Ward Four had.....	60
Ward Five had.....	89
Ward Six had.....	131
Burial permits given in the City.....	78
Burial permits given in the State.....	64

I extend thank to the overseers for the kind and courteous treatment accorded me during the year.

Respectfully submitted,

WOODBIDGE W. TUTTLE,

Secretary.



ANNUAL REPORT
OF THE
SUPERINTENDENT OF STREETS,
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

IN BOARD OF ALDERMEN, Jan. 15, 1886.

Read and ordered on file.

SAMUEL M. CHASE,
City Clerk.

IN COMMON COUNCIL, Jan. 15, 1886.

Received and read.

DAVID CHASE,
Clerk.

REPORT.

TO HIS HONOR THE MAYOR, AND GENTLEMEN OF THE CITY
COUNCIL :

In accordance with the requirements of the City Ordinances, I respectfully submit the following Report of the departments under my care, viz: Roads and Bridges, and Sewers, for the year 1885.

ROADS AND BRIDGES.

GENERAL STATEMENT OF EXPENDITURES.

Balance undrawn Jan. 1, 1885.....	\$	3,425	08	
Appropriated for the year 1885.....		30,000	00	
Loan.....		35,000	00	
Receipts from various sources.....		27,662	70	
				<u>\$96,087 78</u>
Expenditures.....	\$	88,000	56	
Balance		8,087	22	
				<u>\$96,087 78</u>

Total Expenditures.....	\$ 88,000 56	
Deduct amount received for labor, materials, sidewalks, etc.....	27,662 70	
	<hr/>	
Net Expenditures.....	\$60,337 86	
Deduct amount paid for damages, land, etc.,	151 97	
	<hr/>	
Total net expenditures for ordinary Street purposes.....		<u>\$60,185 89</u>

STREETS LAID OUT AND ACCEPTED IN
1885.

STREETS.	BETWEEN WHAT STREETS.	LENGTH IN FEET
Brooks.....	Fletcher and Willey.....	435
Cabot.....	Ford and Hall.....	638
Harrison....	Oak and Rogers.....	739
Royal.....	Westford Southerly.....	884
So. Loring..	Liberty and Street D.	1,208
Worthen....	Broadway, Westerly to Kitson.....	773
	Total	4,677

The lines have been defined and grade established on Riverside Street, from the Mammoth Road to the lower line.

Number of miles of accepted Streets, Jan. 1, 1885.....	91 73-100
Accepted in 1885.....	88-100

Total number of miles of accepted streets, Jan. 1, 1886..92 61-100

PAVING.

STREETS.	BETWEEN WHAT STREETS.	SQUARE YARDS.
Dutton	Market Southerly to a point, 104 feet Southerly of Broadway.....	3,219
Thorndike...	Pawtucket Canal and Middlesex Street.....	1,532
	Total	4,751

The above is small granite paving which has been laid to replace the large granite blocks, in Dutton and Thorndike Streets.

COBBLE STONE GUTTER PAVING.

STREETS.	SQUARE FEET.
Appleton.....	165
Belmont Avenue.....	2,175
Butterfield.....	2,470
Cabot.....	820
Canton.....	3,826
Chapel.....	900
Charles.....	347
Coburn	500
Cushing	250
Cross	4,779
Fayette.....	2,285
George.....	1,000
Grand	1,155
Lincoln	5,000
Linden	1,216
London.....	1,125
Madison	1,694
Mansur.....	1,798
Methuen.....	2,250
Moody	2,650
Mt. Washington.....	1,292

COBBLE STONE GUTTER PAVING.—*Continued.*

Nineteenth	1,100
Race	1,620
Read.....	810
River	1,000
Rock.....	2,275
Sixth	300
Stevens	6,683
Suffolk.....	328
Third.....	1,100
Thirteenth.....	1,035
Thorndike.....	200
Union.....	784
Varney	1,315
Wamesit	2,600

Total....58,847 square feet, or 6,538 5-9 square yards.

GRANITE CROSSINGS.

Have been laid of wide granite flagging, during the year as follows :—

STREETS.	LOCATION.
Agawam	At Barrington Street.
Agawam	At Lawrence Street.
Appleton	At Thorndike Street.
Barrington	At Agawam Street.
Bowers.....	At Mt. Vernon Street.
Chelmsford	At Howard Street.
Fulton.....	At River Street.
Griffin	At Agawaum Street.
Howard.....	At Chelmsford Street.
London	At Gorham Street.
Mansur	At Belmont Avenue.
Merrill	At Taylor Street.
Methuen	At Seventh Street.
Taylor.....	At Taylor Street Court.
Thorndike	At Chelmsford Street.
Walker	At Branch Street.
Wamesit.....	At Central Street.
Westford	At Congregational Church.
West Sixth	At Bridge Street.
Wyman.....	At Belmont Avenue.

GRADING.

STREETS.	SQUARE FEET.
Andover	1,334
Baldwin	1,112
Belmont Ave	445
Boylston	2,000
Butterfield	2,000
Chelmsford	18,667
Chestnut	1,334
Concord	6,450
Cross	2,700
Cushing	4,523
Durant	2,334
East Chelmsford Road	1,667
Forest	225
Garnet	889
Gorham	700
Grand	1,800
Hale	6,378
High	6,334
Highland	400
Hildreth	8,244

GRADING.—Continued.

Howard.....	667
Keene.....	2,150
Lawrence.....	3,200
Liberty.....	625
Lincoln.....	5,245
Madison	400
Main.....	1,000
Mammoth Avenue.....	1,845
Manchester.....	1,245
Methuen	2,667
Moore	3,556
Old Meadow Road.....	1,112
Oliver	800
Otis.....	990
Parker	667
Pawtucket.....	985
Pine.....	445
Plain.....	4,420
Pond	780
Poor Farm Road.....	2,800
Pail Road Street.....	725
River.....	9,719
Simpson.....	800
Tenth	445

GRADING--Continued.

Third	556
Varnum Avenue.....	3,200
Walker.....	6,000
Washington.....	2,100
Water.....	334
Westford.....	2,212
West Adams.....	1,534
Willey.....	2,500
Stevens	9,840
Lilley Avenue.....	4,978
Total number square yards.	<hr/> 150,078

MACADAMIZING.

STREETS.	BETWEEN WHAT STREETS.
Jackson	Middlesex and Central Street.
Mt. Vernon...	Broadway and Rock Street.
Rock	School and Willey Street.
Taylor.....	Lawrence and R. M. R. R.
Thorndike ...	Appleton and Middlesex Street.

SIDEWALKS.

STREETS.	BETWEEN WHAT STREETS.	Lineal Feet Corner Stone.	Lineal Feet Edge Stone.	Square Yards Concrete.
Agawam	Moore and Griffin, both sides and Griffin and Lawrence, east sides.		939.1	926.8
Branch	Walker and Dover north- erly side.	14.7	338.	167.7
Belmont Ave.	Mansur and Talbot, west- erly side.	10.7	255.	187.8
Chapel	Opposite the premises of Owen Cahill, easterly side		44.1	
Concord.	Boylston and Water, westerly side.		1,303.6	
Grand.	Westford and Chelms- ford, easterly side. . . .		224.7	317.6
Hildreth	Hampshire and Rye, northerly side.		2,349.1	
Hildreth	Hampshire, westerly op- posite the premises of the Lowell Co-operative Milk Association, southerly side.	5	59.7	42.4
High.	Rogers, northerly to pre- sent sidewalk, easterly side.		706.	
Lilley Ave.	Aiken Avenue and Hil- dreth Street both sides		2,467.2	1,517.1
	<i>Carried forward. . . .</i>	30.4	8,686.5	3,159.4

SIDEWALKS.—Continued.

STREETS.	BETWEEN WHAT STREETS.	Lineal Feet Corner Stone.	Lineal Feet. Edge Stone.	Square Yards Concrete.
	<i>Brought forward.....</i>	30.4	8,686.5	3,159.4
Lincoln	Gorham and West, both sides.....		1,848.4	
Mansur	From Belmont Avenue, westerly, both sides...	19.8	322.5	242.4
Madison	Gorham and Thorndike, both sides.....	25.2	968.7	
Mt. Vernon..	Bowers, notherly to the premises of J. M. Pear- son, westerly side.....		372.5	263.2
Pollard	Chapel and Linden,north- erly side.....		233.3	
Queen	Branch and Middlesex, Both sides.....	9.1	699.9	329.2
Rock	From Fletcher, westerly to the premises of Sager Ashworth, north- erly side.....	9.7	275.8	178.8
Rock	From the premises of Wm. H. Wiggin to Sager Ashworth's land, northerly side.		248.	275.6
Taylor.....	From Lawrence Street to the Taylor Street Br'g., both sides.....		614.	343.6
Taylor St.B'g.	Taylor Street Bridge, both sides.....		642.9	356.7
	<i>Carried forward.....</i>	94.2	1,4912.5	5,148.9

SIDEWALKS.—Continued.

STREETS.	BETWEEN WHAT STAEETS.	Lineal Feet Corner Stone.	Lineal Feet Edge Stone,	Square Yards Concrete.
	<i>Brought forward....</i>	94.2	14,912.5	5,148.9
Thirteenth ..	June, to the sidewalk at the premises of H. B. French, northerly side.	25.2	200	388.9
Twelfth.	May and June, northerly side			123.1
Varnum.....	Sixth and Seventh, west- erly side.....		175	
Walker.....	From Branch northerly opposite the premises H. A. Luscomb, west side		111.9	75.3
Wamesit....	Central and Lawrence, southerly side.....	9.5	567	387.5
Northen ..	Opposite the premises of the Kidson Machine Co., both sides.....	10.8	340	264 7
Beacon.....	Opposite the premises of George Stanley.....		48.3	
Coburn	Opposite the premises of J. F. Joyce.....		103.9	
Lincoln	Opposite the premises of the Coburn Shuttle Co.		240.8	
	Concrete re-laid and patching done on Sun- dry Streets.....			917.3
	Totals	114.5	16,699.4	7,359.7

WALKS TOP DRESSED.

STREETS.	BETWEEN WHAT STREETS.	SQ. YDS CON- CRETE.
Bridge	Near West Sixth.....	97.5
Broadway ...	Near Mount Vernon.....	35.4
Butterfield ..	Fletcher and School.....	104.
Central.....	Near Tyler.....	10.
Howard.....	Westford and Chelmsford.....	192.2
Market	Central and Shattuck.....	68.6
Pearl.....	Middlesex and Appleton.....	83.9
Sixth	Myrtle and Beacon.....	177.7
Smith	Branch and Westford.....	50.
Spalding ...	Merrimack and Moody.....	55.
Walker	Westford and Grove.....	103.
	Total.....	977.3

CONCRETE CROSSINGS.

STREETS.	LOCATION.	SQ. YDS CON- CRETE.
Cushing.....	At Fletcher.....	29.
Howard.....	At Westford.....	28.
Market	Opposite Dummer.....	13.3
Rock	Opposite the premises of Sager Ashworth....	27.
	Total.....	97.3

The concrete roadway on Pawtucket Street has been repaired at an expense of one hundred dollars, by E. A. and A. T. Smith, as per contract, in a satisfactory manner.

PERSONAL PROPERTY.

The following is a schedule of Personal Property under my charge. Dec. 31, 1885, belonging to the Appropriation for Roads and Bridges : —

1 Engine,	1 Watering cart.
Blacksmiths tools and stock,	4 Wood Wagons.
Ten tons of Hay,	4 Paupers. wagons,
Twenty hundred lbs. Rye Straw,	2 Lumber wagons.
100 bushels of Oats,	1 road builder.
20 bushels of corn,	1 hand cart.
5 bags of meal,	1 stone drag.
40 horses,	1 pair draft wheels.
17 set double harnesses,	5 single wagons.
17 set single harnesses,	1 committee wagon.
1 set lead harnesses,	17 double wood sleds.
36 feed baskets,	6 snow scrapers.
116 curry combs and brushes,	1 snow plow.
54 collars,	3 plows.
45 halters,	2 steel scrapers,
60 blankets,	2 single sleighs.
51 surcingles,	2 pauper sleighs.
1 horse sling,	2 stone truck drags.
5 horse covers,	2 street rollers.
3 buffalo robes,	2 street sweepers,
16 double carts,	1 set sled runners.
14 single carts,	5 street rakes,
1 new cart body,	7 forks.
11 tool chests,	2 augers.

PERSONAL PROPERTY.—Continued.

8 steel wedges,	3 anvils.
33 stone cutters points,	1 coal screen.
5 trowels,	2 longhandled shovels.
4 paving mauls,	3 wash-tubs.
807 lbs. steam drills,	2 ice chisels.
24 plug drills,	4 vices.
28 crow bars,	6 monkey wrenches.
18 tramping bars,	2 bit stocks.
56 snow shovels,	9 wooden mauls.
33 Hoes,	7 mauls, long handles.
8 lanterns,	22 wheel barrow frames.
15 oil cans,	18 wheel barrow wheels.
10 pails,	100 lbs. nails.
70 picks,	10,839 feet oak lumber.
3 hand saws,	1 feather duster.
10 axes,	1 cask spikes.
3 adzes,	18,245 feet 3 inch plank.
2 jack screws,	2,500 feet spruce lumber.
1 scythe,	8 street signs,
106 stake chains,	3 gal's blue paint.
14 draft chains,	5 coal hods.
8 wheel-barrows,	3 clocks.
100 shovels,	2 cross-cut saws.
1 grind stone,	3 ladders.
1 boring machine,	5 powder cans.
8 grain rakes,	3 hay cutters.
2 watch tackles,	800 lbs M. salt.
8 sets corner stone,	1 derrick and rig.
2 electric batteries,	5 spirit levels.
2 stone wheel barrows,	1 small platform scale.
1 large platform scale,	3 tubs.
2 corn brooms,	2 long levels.
6 stone bounds,	5 stoves.

PERSOMAL PROPERTY.—Continued.

1 keg powder,	4 street brooms.
126 bdls broom stuf,	59 hammers.
3 hogs,	1 stone crusher.
1 stone crusher building,	1,640 feet edge stone.
6 chairs	1 writing desk,
21 hammer handles,	2 lap robes.

A new set of Platform Scales have been added at the City Yard, at an expense of about two hundred dollars, for the purpose of weighing hay, grain and coal purchased for the city's use.

SEWERS AND DRAINS.

Balance on hand. Jan. 1, 1885.....	_____	
Appropriation for the year 1885.....	\$20,000 00	
Loan	15,000 00	
Receipts from various sources....	14,478 13	

Total.....		<u>\$49,478 13</u>
Expenditures for the year 1885.....	\$42,781 20	
Balance on hand, Dec. 31, 1885.....	6,696 93	

Total.....		<u>\$49,478 13</u>

CATCH BASINS.

The following shows the Street Catch Basins built during the year, their location, etc.

Appleton	Southerly side at south west intersec-	
Blue Stone.	tion Gorham.....	\$ 95 79
Appleton	Northerly side at north west intersec-	
Blue Stone.	tion Gorham street.....	87 03
Belmont	Easterly side near residence of T. Gard-	
Iron.	ner	85 67
Belmont	Westerly side near residence of T.	
Iron.	Gardner street.....	88 14
Chelmsford	Easterly side at north east intersection	
Iron.	with Howard street.. ..	73 35
Chelmsford	Westerly side at north west intersec-	
Iron.	tion with Howard street.....	68 42
Cambridge	Westerly side about 340 feet south of	
Iron.	Hale street.....	62 96
East Merrimack	Northerly side at easterly int. with Al-	
Grate.	der sttreet.....	48 75
Eleventh	Southerly side at southeast intersection	
Iron.	with Alder street.....	68 57
Eleventh	Northerly side at northeast intersection	
Iron.	with Methuen street.....	68 57
Eleventh	Northerly side near residence of Mrs.	
Iron.	Swan.....	66 13
Fourth	Southerly side near Read street.....	67 35
Iron.		

CATCH BASINS.—Continued.

Fourth Avenue Iron	Northerly side at westerly intersection of Mt. Grove street.....	73 35
Fourth Avenue Iron.	Northerly side at easterly intersection of Mt. Grove street.....	75 05
Fourth Avenue Iron.	Southerly side at easterly intersection of Mt. Grove street.....	73 35
Fourth Avenue Blue Stone.	Southerly side near residence of F. Cogger	72 78
Harrison Iron.	Easterly side at southerly intersection with Porter street.....	66 55
Harrison Iron.	Easterly side at northerly intersection with Rogers street.....	68 25
Hall Iron.	Southerly side at easterly intersection with Coolidge street.....	69 95
Jackson Iron.	Southerly side opposite Hamilton Counting Rooms.....	68 25
Lombard Iron.	Northerly side at Mt. Vernon street...	94 35
Lombard Iron.	Southerly side at Mt. Vernon street.	82 43
Liberty Grates.	Northerly side near Pine street.....	54 55
Lilley Avenue Iron.	Northerly side at easterly intersec- tion with Dalton street.....	66 53
Lilley Avenue Iron.	Northerly side at easterly intersec- tion with Cumberland Road.....	66 55
Lilley Avenue Iron.	Southerly side at easterly intersec- tion with Dalton street.....	66 53
Lilley Avenue Iron.	Southerly side at easterly intersec- tion with Cumberland road.....	66 55
Linden Iron.	Easterly side at Union street.....	75 67

CATCH BASINS.—Continued.

Marginal Iron,	Northerly side at intersection with Stevens street.....	95 45
Mansur Grates,	Southerly side at Fairmount street..	56 35
Pearl Iron,	Westerly side at Middlesex street....	61 45
Pearl Iron,	Easterly side at Middlesex street....	63 45
Pine Iron,	Southerly side at Hastings street.....	126 46
River Iron,	Northerly side opposite residence of Green.....	72 91
River Iron,	Northerly side near street.....	69 93
Stevens Iron,	Easterly side at southerly intersection with Westford street... ..	68 65
Stevens Iron,	Westerly side at southerly intersection with Westford street.....	66 55
School Iron,	Westerly side near Sawtelle Place.....	68 93
School Grates,	Easterly side near Sawtelle Place.....	59 86
South Iron,	Easterly side at Middlesex street.....	63 13
South Iron,	Westerly side at Middlesex street.....	74 48
Stackpole Iron,	Northerly side	68 53
Stackpole Iron,	Northerly side	68 55

CATCH BASINS.—Continued.

Second Avenue	Northerly side about 450 feet, from	
Blue Stone,	Mammoth road.....	74 18
Second Avenue	Southerly side about 450 feet from	
Blue Stone,	Mammoth road.....	72 48
Tyler	Northerly side opposite Mr. Walker's	
Iron,	Residence	59 75
Thirteenth	Northerly side near May street.....	70 78
Iron,		
Thirteenth	Southerly side near May street.....	71 73
Iron,		
West Third	Northerly side about 250 feet from	
Iron,	Bridge street.....	74 08
West Third	Northerly side about 450 feet from	
Iron,	Bridge street.....	68 55
West Third	Southerly side about 250 feet from	
Iron,	Bridge street.....	70 08
West Third	Southerly side about 450 feet from	
Iron,	Bridge street.....	67 87
West Third	Southerly side near Coburn street....	66 41
Iron,		
West	Northerly side near Fulton street....	69 53
Iron,		
Westford	Northerly side near South Canton	
Iron,	street.....	71 65
Westford	Southerly side near South Canton	
Iron,	street.....	68 23
Westford	Northerly side near Edson street....	68 23
Iron,		
Westford	Southerly side near Robbins street ...	68 23
Iron,		

CATCH BASINS.—Continued.

West Adams	Southerly side about 300 feet from	
Iron,	Walker street.....	71 61
		<hr/>
		\$4,219 51
Church	Southerly side near B. & M. R. R....	37 38
Iron,		
East Merrimack	Southerly side near Davidson street..	58 31
Blue Stone,		
Hurd	Southerly side at Warren street.....	38 66
Grates,		
Methuen	.....	49 63
Iron,		
Moody	Northerly side between Suffolk and	
Iron,	Race street.....	46 94
Moody	Southerly side at Monument Square.	52 55
Blue Stone,		
Market	Northerly side opposite P. Lynch's.	50 42
Iron,		
		<hr/>
		\$343 89
Number of basins built in 1885.....		66
Cost of same.....		\$4,563 40
		<hr/>

Table showing the Sewers built during the year, length, size, materials, when begun and finished, and cost.

STREETS.	Length in feet.	Size in inches.	Materials.	Begun.	Finished.	Costs.
Broadway	303	12	Akron Pipe	May 21	June 20	\$1016 38
Belmont and Pine.....	440	6, 12 and 15	Akron Pipe	July 27	August 18	842 41
Boylston and Concord.....	945	45 and 37x25	Brick	August 3	December 1	9,412 92
Chelmsford.....	555	30x20	Brick	September 30	November 12	1,718 89
Davis	170	10	Akron Pipe	June 26	July 3	324 88
Gold	235	10	Akron Pipe	May 11	May 21	455 29
Mount Vernon.....	85	10	Akron Pipe	June 19	June 27	187 10
Market and Dutton.....	602	30x20	Brick	April 18	June 30	6,238 34
River.....	251	12	Akron Pipe	April 18	April 25	364 14
Royal	218	12	Akron Pipe	November 12	Unfinished	
Rogers.....	348	30x20	Brick	November 19	Unfinished	
Talbot	212	12	Akron Pipe	April 30	May 11	406 98
Twelfth.....	487	15 and 12	Akron Pipe	August 29	September 26	1,019 35
West Fourth.....	123	12	Akron Pipe	December 17	December 30	170 02

Lineal ft. Sewers laid in '85, 4,974, or .94 ms. Laid previously 47.59 ms. Length of sewers Jan. 1, '86, 48.53 ms.

PERSONAL PROPERTY.

The following is a schedule of the Personal Property in my care, Dec. 31, 1885, belonging to the appropriation for Intercepting Sewer.

1 pumping engine,	1 hoisting engine.
2 derricks,	3 submerged pumps.
	2 pile-drivers.

PERSONAL PROPERTY.

The following is a schedule of the Personal Property, under my charge, Dec. 31, 1885, belonging to the Appropriation for Sewers and Drains :—

2 horses,	2 hand hammers.
2 carts,	12 striking hammers.
1 sleigh,	20 heavy hammers.
2 wheel barrow,s	2 nail hammers.
7 set blue stone for catch basins,	45 hammer handles.
6 marine pumps,	3 Adzes.
8 oil cans,	2 axes.
5 hoes,	9 Jack screws.
32 lanterns,	1.404 lbs. steel.
99 picks,	20 Iron bars.
17 pails,	2 monkey wrenches.
10 hand drills,	2 reducers.
4 hand saws,	3 Dutchmans.
2 cross cut saws,	96 shovels,
3 chisels,	5 powder cans.

PERSONAL PROPERTY.—Continued.

1 mallet,	3 blacksmiths forges.
2 hatchets,	3 Anvils.
4 levels,	2 vices.
21 drilling spoons,	2 set tackle and falls.
19 tag ropes,	2 crabs.
1 trowel,	4 set shear poles.
21 pair tongs,	12 chains,
22 face hammers,	2 50-foot tapes.
3 iron rakes,	1 steel square.
8 tool chests,	6 wheel barrows.
2 iron mauls,	18 wooden mauls,
100 feet $1\frac{3}{4}$ inch rope,	50 lbs. nails.
800 feet leather hose,	2 Iron dogs.
12 sheeting caps,	3 chests blacksmiths tools.
2 electric batteries,	3 steam drills.

SUGGESTIONS.

I would respectfully suggest the need of a steam road roller. And that a new stone crusher is among the necessities of the near future. For the preservation of streets where travel is heavy, it is advisable to employ paving and macadamizing liberally, as the maintenance of un-paved streets is expensive, and the necessity for repairs almost constant. Work on Concrete sidewalks at least, as far as repairs are concerned, should be done by the Streets Department. Concrete Crossings should be replaced by granite, as the greater durability of the latter is shown to advantage at intersecting streets. The City suffers now for want of good material for grading. First class material is difficult to obtain, and hence it is recommended that maccadam be used more profusely. Central Street, from Chapel to Gorham Street, and Worthen Street, from Fletcher to Broadway Street, should be macadamized. The wooden paving on Dutton Street, from Market to Merrimack Street and on Bridge Street, from Third to Sixth Street, is very badly worn and must soon be replaced, for which the small granite blocks should be employed.

ACKNOWLEDGEMENTS.

In closing this report, I desire to acknowledge my

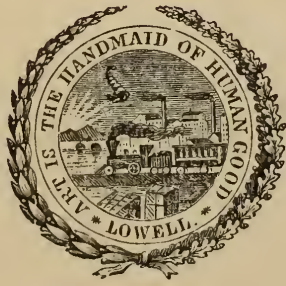
obligations to His Honor the Mayor, for his constant kindness, counsel and advice. To the gentlemen of the City Council, I beg to tender sincere gratitude for the consideration and courtesy shown the departments, and especially, to, thank the Committees on Roads and Bridges, and Sewers and Drains for their uniform helpfulness and encouragement throughout the year. I wish also to express my sense of the fidelity of the Assistant Superintendent, Foremen, Time Keeper and subordinates under my charge, and to testify to their dilligent service in behalf of our City. I also wish to thank the City Engineer and his assistants for their kindness and courtesies extended by them throughout the year.

Respectfully submitted,

CHARLES H. HANSON,

Superintendent of Streets.

ANNUAL REPORT
OF THE
SUPERINTENDENT
OF
PUBLIC BUILDINGS
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Jan. 19, 1886.

Read and ordered on file. Sent down.

SAMUEL M. CHASE,
City Clerk.

IN COMMON COUNCIL, Jan. 26, 1886.

Received and read.

DAVID CHASE,
Clerk.

JOINT STANDING COMMITTEE ON LANDS AND BUILDINGS, FOR 1885.

Aldermen, JOHN F. HOWE, *Chairman*.

“ GEORGE E. STANLEY,

Councilmen, GEORGE A. ROPER, *Clerk*.

“ JAMES R. FULTON,

“ PATRICK J. SMITH.

SUPERINTENDENT, - - - - - GEO. A. CHASE.

EXPENDITURES.

The Expenditures were as follows:

Paid for SUNDRIES :

To H. H. Wilder & Co., Plumbing.....	\$ 45 05
Lovejoy & Rand Express.....	15
W. D. Cheney, postage.....	75
J. Merrill & Son, stationery.....	5 67
O. Duckworth, paints.....	2 30
Daniel McCarthy, teaming.....	1 00
Farrell & Conation, plumbing.....	30 72
Lowell Gas Light Co., gas.....	97 05
N. E. Telephone Co., telephone.....	48 90
S. A. Proper, doors and windows.....	2 50
Talbot & Co., acid.....	19
U. S. & C. Express Co., express.....	1 60
Cahill Brothers, shoeing horse.....	2 25
C. Zimmer, key blanks.....	20
French & Puffer, globes.....	39
T. C. Sawyer, sleigh, and fixing wagon.....	69 58
Appropriation for Roads and Bridges, removing snow.....	39 79
J. Kendall & Co., naptha.....	4 75
T. M. Bolton, repairing harness.....	1 85
Citizen Newspaper Co., printing.....	5 25
Appropriation for Paupers, for wood.....	7 00
John Gilchrist, plumbing.....	20 46
H. B. Shattuck, hardware.....	16 89
H. R. Barker, piping.....	114 48
Atkins & Harmon, use of sleigh.....	2 00
C. B. Coburn & Co., paints.....	126 47
F. Taylor & Co., hardware.....	45 86
A. Keddie, turning.....	25
<i>Amount carried forward.....</i>	<hr/> \$ 639 93

Amount brought forward..... \$639 93

Paid for SUNDRIES:

To H. C. Church & Son, stationery.....	1 85
T. R. Garity & Co., plumbing.....	28 70
Lowell Carpet Cleansing Co., cleaning carpet....	1 75
Whitney & Tibbetts, lumber.....	33 91
S. G. Mack, sheet-iron work.....	3 55
McDonald & Mason, teaming.....	50
A. L. Brooks & Co., lumber.....	88 68
Dyar & Patterson, repairing harness.....	7 40
Samuel Young, electrician.....	2 50
James Nixon.....	3 50
W. H. Kimball, stair work.....	8 05
Badger & Holmes, turning.....	10 00
M. V. B. Libby, shoeing.....	14 65
Amasa Pratt, lumber.....	90 53
T. G. Little, teaming.....	1 00
O. E. Averill, blacksmith.....	15 00
T. Costello & Co., plumbing.....	10 80
Pevey Bros., castings.....	16
Fisk & Spaulding, paints.....	6 87
H. Hosford & Co., cloth.....	79
D. P. Knowlton & Co., teaming.....	50
Staples Bros., drain pipe.....	2 68
J. F. Cosgrove, scenery.....	50 00
Appropriation for Water Works, water.....	20 00
J. H. Sparks, liniment.....	4 00
Marden & Rowell, printing.....	2 50
Robert Goulding, slating.....	14 50
Rollins & Sargent, plastering.....	15 63
J. C. Bennett, hardware.....	15 95
O. L. Cumbridge, stationery.....	43
A. Bachelder, doors.....	3 50

Amount carried forward..... \$1,099 81

Amount brought forward..... \$1,099 81

Paid for SUNDRIES :

To S. D. Butterworth, plastering.....	73 60
Campbell & Hanscom, printing.....	5 50
Sherman & Manning, chairs.....	50 04
A. P. Bateman, lumber.....	18 07
H. H. Wilder, plumbing.....	1 50
W. E. Livingston, coal.....	57 90
E. W. Coburn, plastering.....	99 00
Burnham & Moran, lumber.....	6 40
J. G. Peabody, sash.....	3 00
Geo. Richardson, use of wagon.....	1 00
Whiting & Weston, leather.....	35
James Harrington, teaming.....	50
L. A. Derby, electrician.....	3 25
M. J. Hennessy, plumbing.....	19 51
Russell Clifford, cleaning clocks.....	75
Pay Roll.....	4,461 05
Supt. salary.....	1,500 00
Appropriation for School Houses.....	2 32
Total.....	<hr/> \$ 7,465 47
Balance undrawn Jan. 1, 1886.	5,855 02
	<hr/> <hr/> \$13,320 49

REPAIRS.

The expenditures for this department have been principally for repairs, the following being some of the more noticable ones:

GOVERNMENT BUILDING.

The repairs have been nearly all on the stores. The store occupied by Mrs. Guillet has been whitened, and a new hard wood floor laid in the back part of the store. The store formerly occupied by Mrs. Proper has been fitted up for the Water Board; the walls have been sheathed to a height of four feet, the walls and ceiling whitened, floor repaired, a glass partition placed across the store, the wood work painted, basement plastered overhead and walls whitewashed, three 2x24 radiators have been placed in the room for heating in place of the old coils, and new gas fixtures put in.

HUNTINGTON HALL.

All the wainscoting has been painted, the hall and stairway on Merrimack Street has been whitened, and the stairway painted.

MARKET HOUSE.

A room formerly occupied by the militia company

has been fitted up for a sleeping room for the police and a doorway cut through into the private hallway of the Police Court. The guard room floor will have to be relaid the coming year.

CITY STABLE.

The office, teamsters' room and wood work in the stable has been painted. A new floor will have to be laid in the stable the coming year, and the ceiling will have to be whitewashed. There also ought to be some kind of a shed provided for storing the coal that is now placed in open bins, as the rain and snow cause it to freeze so that it is almost impossible to get it out, besides damaging the coal.

CITY HALL BUILDING LOT.

RECEIPTS.

Balance January 1, 1885.....	\$6,498 26	
Receipts.....	1,722 00	
	<u> </u>	<u>\$8,230 26</u>
Expenditures.....	1,364 92	
Balance January 1, 1886.....	\$6,865 34	
	<u> </u>	<u>\$8,230 26</u>

The expenditures have been larger this year than usual on account of repainting the buildings, grading of lot, and building of fence. All of the tenements on Merrimack Street have had one coat of paint, those on Colburn and Moody Streets have had two coats. All the tenements have been whitewashed, and some of the rooms have been papered. The end of the lot next to Monument Square has been graded and seeded down, and a fence put around the whole lot. Some of the tenements are in poor repair inside and if they are going to remain long will have to be repaired; also the sewerage system needs changing, as the present pipes, which are made of brick and stone, are in *very* poor condition.

EXPENDITURES.

The expenditures were as follows:

Appropriation for Public Buildings, for labor....	\$ 738 93
Appropriation for Roads and Bridges, removing snow	23 76
S. H. Weaver & Co., roofing.....	10 20
H. R. Barker, pipeing.....	4 48
T. Taylor & Co., hardware.....	11 14
C. B. Coburn & Co., paints and oils.....	31 59
H. B. Shattuck, hardware.....	3 57
W. Kelley, sash.....	2 25
Fisk & Spaulding, paints and paper.....	40 27
John Gilchrist, pipeing.....	46 99
Robert Goulding, slating.....	5 41
O. E. Averill, blacksmithing.....	1 30
A. L. Brooks, lumber.....	106 61
Badger & Holmes, teaming.....	75
Frank Mehan, teaming.....	15 00
P. W. Brown, sod and labor.....	151 70
Wallingford & ^c Gallaghan, fixing roof.....	2 75
W. E. Livingstone, sand.....	2 00
Otis Allen & Son, lumber.....	8 54
Water Works, Warer.....	94 50
Amasa Pratt & Co., lumber.....	40 40
T. G. Little, teaming.....	2 50
T. F. Fay, pumping vaults.....	12 00
H. B. Barnes, paper.....	5 60
Burnham & Moran, lumber.....	1 40
J. C. Bennett, hardware.....	15
Staples Bros., drain pipe.....	3 13
Total.....	<hr/> \$1,364 92
Balance undrawn Jan. 1, 1886.....	\$6,538 34
	<hr/> <hr/> \$8,330 26

SCHOOL-HOUSES.

RECEIPTS.

Balance undrawn Jan. 1, 1885.....	\$ 753 59	
Appropriation for 1885.....	25,000 00	
Receipts.....	20,421 88	
	<hr/>	\$46,145 47
		<hr/>

Expenditures.....	34,723 49	
Balance Jan. 1, 1886.....	11,425 98	
	<hr/>	\$46,145 47
		<hr/>

The following is some of the more noticable work in this department:

GREEN SCHOLL.

All outside wood-work has been painted; one room has been plastered, snow guards put on the roof, and the front yard turfed.

MOODY SCHOOL.

All outside wood-work has been painted two coats, water closets painted one coat, ceilings of two rooms plastered, and all the ceilings and walls whitewashed,

and new floors have been laid in four rooms and one hall.

HIGHLAND SCHOOL.

The brick piers in basement have been removed and replaced by one half the number of wooden columns, with hard pine girder placed on top, to give more room for the children, and prevent them from hurting themselves on the corners of the brick piers. The furniture has all been varnished.

VARNUM SCHOOL.

The old boiler has been replaced by a new and larger one, thereby giving better results, besides making it more safe, as the old one was too small and also badly blistered; the new one is amply large for an addition of two rooms, which will soon have to be done. Two new water closets for teachers have been placed in the basement, also two new sinks. The slate urinal for boys has been put in running order, and the room sheathed. The old urinal has been removed.

EDSON SCHOOL.

New treads have been put on the stairs, teacher's platforms rebuilt, girls water closets repainted, and new brackets put on under the outside door heads.

HIGH SCHOOL.

Basement has been concreted, walls have been

whitewashed, two rooms made of the hall by putting up wooden partitions, and windows cut through into the entry.

FRANKLIN SCHOOL.

Hard pine floors have been laid in the lower entry and on one room, a fence has been put around west end of lot, and new doors put on bulkhead.

CARTER STREET PRIMARIES.

The floors have been relaid the chimneys rebuilt, new floor timber put in the upstairs floor of the two story building, and the ceiling underneath lathed and plastered. Both buildings have been whitewashed throughout, and new fence posts put in.

PRIMARY—CORNER HIGH AND POND STREETS.

New door heads built, new fence put in on both sides of lot, and the stairway painted.

PRIMARY—WEST SIXTH STREET

Whitewashed throughout, ceiling of one room plastered, door cut through between new and old parts, new treads put on outside steps, fence repaired, and ventilator put in the water closet.

PRIMARY—HOWARD STREET.

Built new bank at back end of lot on boys side, yard graded up and chimney partially rebuilt.

WORTHEN STREET HOUSE.

Four water closets and two urinals have been placed in the basement for use of the evening school.

PRIMARY—MIDDLESEX VILLAGE.

Basement floor concreted, school room floor relaid, and walks laid in yard.

PRIMARY—CORNER ELLIOT AND MIDDLESEX STREETS.

New windows put in down stair entry, building whitewashed throughout, porches painted, and ventilator and new seats put in water closet.

PRIMARY—CORNER LONDON AND CENTRAL STREETS.

Additional steam pipes have been placed in this building, as there were not pipes enough to heat it in extreme cold weather.

PRIMARY—CENTRAL STREET.

This building has been entirely rebuilt. The old building was turned one quarter way around, and an addition put on the north east end for two rooms, together with a projection in front 19x25 for stairways and entrys; a new roof was placed over the whole and slated with the best Monson slate.

The entire building old and new was entirely re-finished; a boiler was put in and the building heated by four radiators in each room; water closets and slate urinals placed in basement; basement concreted and front yard re-fenced.

PRIMARY—AGAWAM STREET.

Made an addition of two rooms by building wing on east side; whitened the walls, and painted outside of old and new.

PRIMARY—AMES STREET.

Made an addition of two rooms by moving old building 12 feet toward Lawrence Street, and building a wing on west side of old house; whitened old part, and plastered ceiling of one room, painted the outside of old and new, laid new wall it front. and put a new fence on top; painted fence in front and on Lawrence Street.

PRIMARY—TENTH STREET.

Made an addition of two rooms by building wing on east side; painted all of outside also the fence.

PRIMARY—LONDON STREET

Made an addition of one room by raising old building up and building a room underneath; old room whitened; building and fence painted.

The school houses are all in good repair, excepting a few of the older ones, which, if repaired, would need a general remodeling.

I would recommend that the heating system of the Green School be changed from indirect to direct heating, as it is nearly impossible with the present system, to keep the building warm in very cold weather, and to do it, requires an extra man all night to keep

up steam, for it is impossible to warm the rooms in time for school, if the steam is allowed to go down during the night. A saving of thirty-three per cent. in fuel, would also, in my opinion. be made. I would also recommend, if any new houses are to be built this year, that they be commenced as early in the season as possible, as they can be built cheaper, and to a better advantage, than if put off until summer.

EXPENDITURES.

Paid for SUNDRIES :

The expenditures on school houses were as follows :

Building of Central St. House.....	\$ 6,283 60
Addition to Agawam St. House.....	2,455 29
Addition to Ames St House.....	2,494 55
Addition to Tenth St. House.....	2,369 71
Addition to London St. House.....	1,199 37
Pay Roll, janitors.....	11,179 53
Pay Roll, for school houses.....	3,140 58
C. B. Coburn & Co., paints.....	256 06
Bartlett & Dow, hardware.....	16 71
O. E. Averill, blacksmith.....	29 50
A. L. Brooks & Co. lumber.....	211 85
Atkins & Harmon, board of horse.....	268 38
John Gilchrist, plumbing.....	59 33
Robert Golding, slating.....	81 26
Fisk & Spaulding, lead and oils.....	302 53
Amasa Pratt & Co., lumber.....	686 93
J. Kendall, paints.....	37 68
F. W. Bennett, hardware.....	65

Amount carried forward..... \$31,073 50

Amount brought forward..... \$31,073 50

Paid for SUNDRIES:

H. F. Ebert, cloth.....	6 60
F. Taylor & Co.,.....	59 57
Sewer assessment, Fourth Auenue.....	120 00
Sewer assessment, Rock Street.....	74 32
Sewer assessment, Mammoth Street.....	25 00
H. B. Shattuck, hardware.....	77 12
J. W. Bennett, roofing.....	3 10
Whitney & Tibbetts, lumber.....	293 30
C. E. Adams, hardware.....	14 86
Otis Allen & Son, lumber.....	25 28
Burnham & Moran, lumber.....	154 97
W. Kelley, sash.....	7 00
S. G. Mack, tin work.....	15 58
T. Costello, plumbing.....	3 00
Crosby Furniture Co., milling desks.....	22 12
Wallingford & Callaghan, tin work.....	5 46
W. H. Kimball, stair work.....	11 30
Rollius & Sargent, plastering.....	358 63
H. H. Wilder & Co., plumbing.....	13 70
P. W. Brown, sod, labor.....	50 00
E. A. & A. T. Smith, concrete.....	318 53
William Kittredge, lime and cement.....	19 20
Alex F. Reid, window cord.....	3 69
Whithead & Co., cement.....	3 00
Davis & Sargent, lumber.....	57 09
Appropriation for Water Works, water.....	13 99
Appropriation for Roads and Bridges stone,.....	30 08
Badger & Holmes, wood turning.....	6 60
A. P. Bateman, lumber.....	18 08
W. E. Livingston, sand and cement.....	11 66

Amount carried forward..... \$32,898 43

Amount brought forward..... \$32898 43

Paid for SUNDRIES:

Boutwell Bros., iron.....	3 10
S. W. Fletcher, doors.....	4 00
J. C. Bennett, Hardware.....	32 73
J. G. Peabody, sash.....	1 34
S. D. Butterworth, mason.....	59 66
E. W. Coburn, plastering.....	49 41
M. J. Hennessey, plumbing.....	17 11
Pettingell Chimney Cap Co., caps.....	4 00
Rice & Co., window grates.....	4 10
Union Iron Foundry Co., castings.....	16 50
Farrell & Conaton, plumbing.....	1,088 63
Geo. L. Cady, screw eyes.....	2 20
John McDonough, cleaning brick.....	12 00
A. Bachelder & Co., sash.....	4 50
P. O'Hearn, stone and labor	193 33
Parker & Cheney, columns.....	39 00
Carter & Bemis, window frames.....	9 48
Hooper Bros., whitening.....	35 00
A. J. W. Sweet, lightening rods.....	15 62
D. M. Prescott, plastering.....	110 00
Merrill & Cutler, plans.....	11 37
J. S. Moulton, stone in 1883.....	92 00
Paid sundry persons for teaming, etc.....	76 06
Total.....	<u>\$34,720 49</u>

PERSONAL PROPERTY.

Personal Property Owned by the City, and Under my Charge
January 1, 1886.

1400 feet cherry boards.....	\$ 112 00
1100 feet pine boards.....	49 50
380 feet 2-inch pine plank.....	19 00
335 feet 3-inch pine plank.....	16 75
200 feet 1½-inch pine plank.....	8 00
140 feet 4x7-8-inch pine strips.....	5 60
200 feet 7-8-inch birch boards.....	4 00
720 feet 7-8-inch whitewood boards.....	32 00
150 feet ½-inch whitewood boards.....	6 00
280 feet northern pine.....	5 60
600 feet spruce lumber.....	9 00
1000 feet old lumber.....	10 00
400 lbs. white lead.....	25 00
25 gallons furniture varnish.....	27 00
25 gallons raw oil.....	12 00
10 gallons spirits turpentine.....	8 00
5 gallons japan.....	4 00
5 boxes glass.....	12 00
30 lbs. dry colors.....	3 50
50 lbs. whitening.....	1 50
4 ten-gallon cans.....	6 00
5 five-gallon cans.....	3 75
5 two-gallon cans.....	1 75
12 one-gallan cans.....	3 00

PERSONAL PROPERTY.—Continued.

25 paint pots.....	2 50
3 barrels disenfectant.....	20 00
1 cask portland cement.....	2 25
4 cask common cement.....	1 20
$\frac{1}{2}$ cask soapstone finish.....	2 00
1 cask soapstone blackboarding.....	10 00
9 gallons liquid disenfectant.;	9 00
24 large coffins.....	96 00
17 small coffins.....	34 00
5 boxes, coffin handles.....	8 00
5 cards braid.....	3 00
5 cards fringe.....	3 00
12 boxes coffin studs.....	4 80
9 flags.....	125 00
2 teachers' desks.....	50 00
3 tables for schools.....	12 00
39 new grammar chairs.....	23 00
2 office desks.....	35 00
129 primary desks.....	75 00
124 grammar desks.....	100 00
123 primary chairs.....	50 00
266 iron pedestals.....	133 00
634 desk irons.....	200 00
500 iron braces.....	25 00
52 lbs. asebestos paper....	10 40
12 water closet bowls and fittings.....	75 00
5 large counters.....	50 00
2 stoves.....	8 00
6 jugs.....	3 00
70 feet drain pipe.....	7 00
5 band stands.....	75 00
1 chimney cap.....	4 00
5 registers.....	4 00

PERSONAL PROPERTY.—Continued.

2 whitewash brushes.....	2 00
18 precinct signs.....	36 00
18 lamps.....	12 00
200 old chairs.....	100 00
1 horse.....	200 00
2 wagons.....	100 00
1 sleigh.....	50 00
1 robe.....	8 00
2 blankets.....	5 00
2 kegs nails.....	2 50
Furniture at school houses not included in real estate.....	12,000 00
Total.....	<hr/> \$15,150 60

TOOLS.

Schedule of Tools under my charge January 1, 1886.

1 gas engine, 1 saw bench, 2 grind stones, 17 boring machine augers, 4 centre bits, 1 set steel letters, 1 set steel numbers, 1 belt punch, 3 hand scrapers, 2 pair adze, 1 faucet reamer, 1 axe, 1 hammer, 1 tool chest, 9 hand augers, 1 shingle ripper, 1 ladder hook, 3 glue pots, 1 painter's stage, 3 window jacks, 10 sets ropes, 6 hoisting blocks, 1 pair steel-yards, 1 stipling brush, 1 blender's brush, 1 set grappling irons, 2 scythes, 2 sneths, 8 door clamps, 17 hand screws, 1 iron wrench, 2 monkey wrenches, 1 jack screw, 1 letter press, 1 cross-cut saw, 1 picket machine, 6 boring machines, 4 floor setts, 2 door setts, 44 house bracketts, 4 lumber chuck, 1 tool chest for street use, 1 sewer pump, 9 ladders, 2 pike poles, 5 circular saws, 1 set counter scales, 13 shovels, 1 mitre box and saw, 3 iron bars, 3 sledge hammers, 3 pickaxes, 3 tampers; 4 stone drills, 1 rake. 1 post hole spoon, 4 wheelbarrows, 3 mason jacks, 1 iron vise, 5 paint brushes, 2 road scrapers. Valued at \$645.05.

REAL ESTATE.

	Sq. Ft. of Land.	Value of Land and Buildings
City Government Building.....	10,080.0	\$ 83,000 00
Huntington and Jackson Halls.....		40,000 00
Market House.....	18,740.7	60,000 00
City Scales.....		1,000 00
Butler School House, Gorham Street.....	25,592.0	50,000 00
Pawtucket School House, Mammoth Street	36,159.8	53,000 00
High School House, Ann and Kirk Streets.	19,638.0	47,000 00
Bartlett School House, Clark Street.....	10,000.0	18,000 00
Edson School House, Highland Street.....	19,997.3	22,000 00
Colburn School House, Lawrence Street....	13,250.0	18,000 00
Franklin School House, Branch Street.....	20,000.0	20,000 00
Moody School House, E Merrimack Street.	9,678.0	18,000 00
Green School House, Merrimack Street....	21,309.7	105,000 00
Mann School House, Lewis Street.....	20,794.4	18,000 00
Varnum School House, Myrtle Street.....	28,400.0	20,000 00
Highland School House, Pine Street.....	58,501.1	48,000 00
Morrill School House, Common Street.....	17,440.5	19,000 00
Sherman School House, Powell Street.....	16,239.5	5,000 00
Primary School House, Eliot Street	5,442.9	10,000 00
Primary School House, Church Street.....	4,750.0	6,500 00
Primary School House, High and Pond Streets.....	9,945.0	5,000 00
Primary School House, High Street.....		9,000 00
Primary School House, Carter Street.....	10,525.4	5,000 00

REAL ESTATE.—Continued.

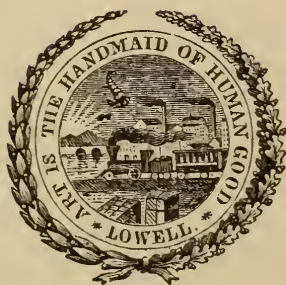
	Sq. Ft. of Land.	Value of Land and Buildings.
Primary School House, Charles Street.....	5,432.4	3,500 00
Primary School House, Fayette Street.....		3,500 00
Primary School House, Rock Street.....	5,202.0	3,000 00
Primary School House, Cabot Street.....	5,250.0	3,500 00
Primary School House, W. Sixth Street....	12,787.5	7,000 00
Primary School House, River Street.....	10,232.0	5,000 00
Primary School House, Ames Street.....	8,295.6	7,000 00
Primary School House, Dover Street.....	18,521.5	6,500 00
Primiry School House, Tenth Street	10,730.0	7,200 00
Primary School House, Cheever Street Lease for 99 years.....		3,250 00
Primary School House, London Street.....	10,065.0	4,000 00
Primary School House, Chapel Street.....	6,316.5	4,500 00
Primary School House Chapel Street } Primary School House, Central Street }	... 13,693.0	12,000 00
Primary School House, Howard Street....	7,043.0	5,000 00
Primary School House, Agawam Street....	13,664.0	7,200 00
Primary School House, Grand Street....	4,155.0	5,500 00
Primary School House, Kirk Street.....	7,840.0	20,000 00
Primary School House, Worthen Street....	11,883.6	25,000 00
Primary School House, Lyon Street.....	12,357.1	20,000 00
Primary School House, Powell Street.....		7,000 00
Primary School House. Varnum Avenue...		1,000 00
Primary School House, Mammoth Street...		4,500 00
Primary School House, Middlesnx Village.		3,000 00
Hose Carriage House, Fayette Street.....		4,000 00
Hose Carriage House, Central Street.....		4,000 00
Hose Carriage House, Lincoln Street.....		500 00
Protective House, Warren Street.....		3,500 00
Lighting Dept. House, Fletcher Street....		3,500 00
Engine House and Ward Room, Fourth Street.....	7,480.0	13,000 00

REAL ESTATE.—Continued.

	Sq. Ft. of Land.	Value of Land and Buildings.
Engine House and Ward Room, Branch Street.....	8,805.0	18,000 00
Engine House and Ward Room, Fletcher Street.....		14,000 00
Engine House and Ward Room, Gorham Street.....	5,255.9	12,000 00
Chemical House, Merrimack Street.....	3,420.0	4,500 00
Engine, Hook and Ladder, Carpenter Shop, and Armories.....	9,025.0	34,500 00
Land and Buildings on Cross, Fletcher and Lagrange Streets.....	154,633.4	55,000 00
Public Landing rear of Market House, ex- clusive of land set off by Locks and Canals Co.....	4,547.0	1,200 00
Land on Chelmsford Street.....	130,680.0	1,600 00
Land on Fletcher and Whiting Streets.....		14,000 00
Land on Middle Street.....	7,306.0	14,000 00
Land on Tenth Street.....	217,800.0	5,000 00
Land on First Street.....		190 00
City Hall Building Lot.....	60,924.16	100,000 00
City Farm and Buildings.....		95,000 00
Wilson Park.....	3,220.0	1,600 00
Mt. Vernon Park.....		2,200 00
Park Garden	1.77 acres	10,000 00
North Common	11.29 "	112,900 00
South Common.....	22.48 "	224,800 00
		<hr/> \$1,589,790 00



ANNUAL REPORT
OF THE
SEALER OF WEIGHTS AND MEASURES.
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Mar. 16, 1886.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

REPORT.

OFFICE SEALER OF WEIGHTS AND MEASURERS

20 FLETCHER STREET.

LOWELL MASS., Jan. 1, 1886.

To the Honorable the Mayor and Board of Aldermen :

Gentlemen,—I have inspected and sealed weights, measurers, and scales to the following amount :

Total Amount of Fees:.....		\$284	42	
Less Trucking.....	46	50		
Less Repairing and Making New..				
Brass Even Balance Weights.....	9	00	\$55	50
			\$228	92

which I paid to the City Treasurer.

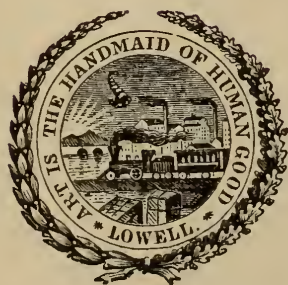
Scales that I have not charged for: 541 weights, 84 platform scales, 12 butcher scales, 40 counter balances, 6 trip scales, 21 balances, 103 measures tested.

NATHANIEL E. ANNIS,

City Sealer.



ANNUAL REPORT
OF THE
SUPERINTENDENT OF STREET LAMPS
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

IN BOARD OF ALDERMEN, Jan. 19, 1886.

Read and ordered on file.

SAMUEL M. CHASE,

City Clerk.

REPORT.

LOWELL, Jan. 19, 1886.

THE MAYOR AND BOARD OF ALDERMEN.

Gentlemen.—Herein is submitted the Annual Report of the Superintendent of Street Lamps for the year ending Dec. 31, 1885 :—

The working force under the direction of the Chief of the Fire Department consists of a fireman 6 men and 29 boys; the men have in addition to their regular duties of cleaning the lamps, set and fitted up 85 gas and 49 gasoline posts, and have changed and reset 50 posts the past year. The boys light, and the Police put out, keep the time, and make reports of any trouble that may occur. The gasoline lamps are contracted for with the Globe Gas Light Co. of Boston at six cents a light per night. Owing to the expense the committee at the first of the year reduced the number of electric lights to sixty, but later in the year upon the recommendation of the committee the City Council voted to contract for two years with the Middlesex Electric Light Co. for seventy lights

to be burned all night at sixty cents a light per night.

This department has at present 1218 lights, 855 gas, 293 gasoline and 70 electrics; there has 24 electric lights discontinued, 35 gasolines changed to gas, 46 new gasoline, 12 jumbos and 80 other gas lights added, an increase of 113 lights the past year. There are 132 gas posts piped ready for use if wanted, that were discontinued on account of the electric lights. The expense of lighting the Government Building, Ward Rooms, Armories, Huntington and Jackson Halls are charged to this department.

The location of gas lights added during the year is as follows : on Fairmont, George, Cross, Branch, Fayette, Lincoln, Gorham, Washington, Riverside, Hildreth, Eleventh, Western Avenue, South Highland, Rock, Rogers, Harrison, Pleasant, Ludlam, Concord, South, Wilder, Royal, Twelfth, Common, Moody and Stevens one each, Fairview, Barclay, Grand, Mt. Vernon, Oliver, Worthen, West Pine, two each, Belmont avenue, Andrews, Taylor Street Bridge, Thirteenth, three each, Powell, Lilley Avenue, four each, River and Middlesex, eight each, and Chelmsford ten.

The fluid lamps added are located as follows : On Parker, Leverett, Chelmsford, East Merrimack, Stackpole, Frye, Waite, Wilson, Spring, Pearl, West, Otis, Lawrence, Thirteenth, Cabot Street Bridge, and Cat Alley, one each, New Fletcher, Humphrey, Pine, River, Woodward Avenue, three each, Westford and Baldwin, five each and Stevens Street eight.

The gas changed from gasoline are located as follows: Belmont Avenue, Common, Stevens, Moody, Grand, Lincoln, Taylor Street Bridge, Oliver, one each, West Pine and Andrews, two each, Powell, three, Middlesex and River six each and Chelmsford Street, eight.

EXPENDITURES.

Pay-Roll.....	\$ 6,597 62
Lowell Gas Light Co.....	12,128 32
Globe Gas Light Co.....	5,863 89
Electric Light Co.....	18,293 30
Posts and Arms.....	632 74
Oil, Paints, Glass, Chamois, Etc.....	228 92
Globes	127 73
Lanterns.....	605 25
Hardware.....	21 01
Pipe, Fittings, Etc.....	170 94
Coal.....	18 57
Repairing Lanterns, Etc.....	78 86
Water.....	17 00
Repairing Wagon and Painting.....	42 19
Use of Horse.....	4 50
Alcohol....	206 64
Horse Shoeing and Lamp Frames.....	113 42
Telephone	25 00
Hay and Grain.....	113 90
Printing and Stationery.....	7 75
Harness repairs.....	7 35
Matches	5 00
Repairing Concrete.....	9 25
	<hr/>
	\$45,319 15
Appropriation.....	\$43,000 00
Received from Reserved Fund.....	2,242 82
Receipts	76 33
	<hr/>
	\$45,319 15

PERSONAL PROPERTY OWNED BY THE CITY.

Schedule of property under the charge of E. S. Hosmer, Superintendent of Street Lamps, January 1st 1886.

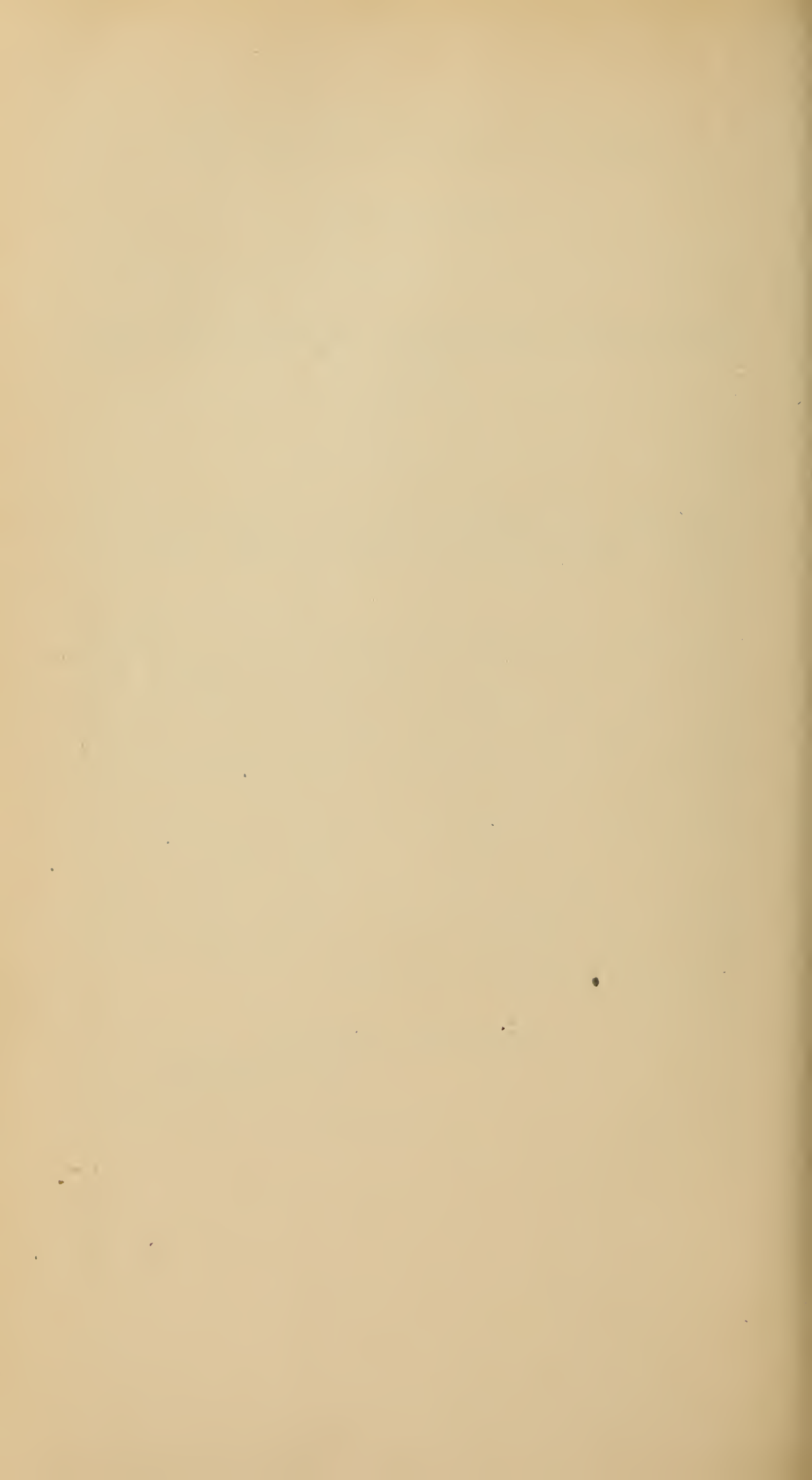
Oil house, 817 gas posts and lanterns, 132 posts without lanterns, 25 torches, 125 old fluid lamps, 1 horse, 2 wagons, 1 pung and 1 light sleigh, 2 harnesses, 2 blankets, 2 robes, 1 stove and pipe, 1 copper boiler, 2 copper tanks, coal hod, 2 spittoons, bath tub, $\frac{1}{2}$ ton hay, 23 bush oats, 35 gallons alcohol, 47 gallons wood alcohol, 125 gas cocks, 5 gross matches, 30 globe frames, 20 glass globes, 3 old frames and lanterns, 9 new lanterns, 100 feet $\frac{3}{4}$ hose, 1 oil tester, 1 air pump, piping tools and bench, desk, table, six chairs, 150 tin tops, 1 Johnson pump, match box, 12 ladders, 293 gasoline posts and lanterns, 36 elbows, ton coal, 2 diamonds, 10 arms tools, reflectors, waste, etc.

The value of the above is \$25,000.00

Respectfully submitted,

E. S. HOSMER.

Superintendent of Street Lamps.



ANNUAL REPORT
OF THE
SUPERINTENDENT OF CITY SCALES
AND
MAESURER OF WOOD AND BARK,
OF THE
CITY OF LOWELL,
FOR THE YEAR 1885.



LOWELL, MASS.:
PRESS OF O. A. LIBBY, 56 CENTRAL STREET.
CITY PRINTER.
1886.

CITY OF LOWELL.

IN BOARD OF ALDERMEN, Feb. 16, 1886.

Read and ordered on file.

SAMUEL M. CHASE,
City Clerk.

REPORT.

TO THE HONORABLE MAYOR AND BOARD OF ALDERMEN :

Gentlemen,— In compliance with an ordinance, requiring the Superintendent of City Scales to report annually, I have the honor to submit the following report :—

I have during the year weighed—

			Tons.	Pounds.
1,434	loads	of Hay	1,185	1,466
345	"	Straw	258	1,056
214	"	Coal	432	1,620
43	"	Iron	78	1,475
2	"	Salt	6	1,325
79	"	Cabbage	74	997
10	"	Patatoes	9	650
18	"	Carrots	15	835
10	"	Corn Fodder	14	1,345
8	"	Grain	15	200
3	"	Logwood	8	1,850
3	"	Hair	7	720
10	"	Oil	8	1,675
22	"	Paper	16	195
6	"	Squash	3	1,960
1	"	Turnips	1	145
1	"	Lumber	4	1,405
3	"	Boxwood	3	75
2	"	Stone	3	520

		Tons.	Pounds.
1	loads of	Bagging	2 150
2	"	Furniture	3 455
1	"	Dressed Hogs	1 1,010
4	"	Pigs	1 1,832
1	"	Onions	1,370
1	"	Bones	1,670
3	"	Excelsior	785
1	"	Pop Corn	880
1	"	Calf Skins	537
182		Horses	—
12		Pairs of Oxen	—
13		Wagons	—

Received for fees for weighing \$452.83.

R. J. NOONAN,

Superintendent of City Scales.

ANNUAL REPORT
OF THE
MEASURER OF WOOD AND BARK.

REPORT.

I have during the year measured --

		Cords.	Feet.
4,436 loads of	Wood.....	4,992	5 $\frac{1}{4}$
289 "	Manure	221	2 $\frac{1}{4}$
9 "	Waste	5	4 $\frac{1}{2}$
4 "	Wagons		12

Received for fees for measuring, \$244 20.

R. J. NOONAN,

Measurer.

CITY OF LOWELL.

In the year eighteen hundred and eighty-five.

RESOLUTION

ESTABLISHING THE SALARIES OF OFFICERS OF THE
CITY OF LOWELL FOR THE YEAR 1886.

*RESOLVED, by the Board of Aldermen
and Common Council of the City of
Lowell, in City Council assembled, as
follows: —*

The salaries of the several city officers for that portion of the year beginning on the first of January, and ending on the thirty-first day of December, one thousand eight hundred and eighty-six, shall be at the rate herein mentioned; to be paid monthly, unless herein otherwise ordered.

Section I. The salary of the MAYOR^{Mayor.} shall be at the rate of two thousand dollars per annum.

CITY DOCUMENT, 1885.

SALARIES OF THE OFFICERS

OF THE

CITY OF LOWELL,

FOR THE YEAR 1886.



LOWELL, MASS.:

VOX POPULI PRESS: 130 CENTRAL STREET.

1885.

CITY OF LOWELL.

In the year eighteen hundred and eighty-five.

RESOLUTION

ESTABLISHING THE SALARIES OF OFFICERS OF THE
CITY OF LOWELL FOR THE YEAR 1886.

*RESOLVED, by the Board of Aldermen
and Common Council of the City of
Lowell, in City Council assembled, as
follows: —*

The salaries of the several city officers for that portion of the year beginning on the first of January, and ending on the thirty-first day of December, one thousand eight hundred and eighty-six, shall be at the rate herein mentioned; to be paid monthly, unless herein otherwise ordered.

Section 1. The salary of the MAYOR^{Mayor.} shall be at the rate of two thousand dollars per annum.

City Clerk.

Sect. 2. The salary of the CITY CLERK shall be at the rate of eighteen hundred dollars per annum.

City Treasurer.

Sect. 3. The salary of the CITY TREASURER shall be at the rate of twenty-five hundred dollars per annum, for performing the duties of City Treasurer and Collector of Taxes. He shall annually give a bond in the sum of fifty thousand dollars, with good and sufficient sureties, satisfactory to the Mayor and Aldermen, for the faithful performance of his duties, and to account for all sums of money received in the sales of Water Bonds, and the collection of Water Rates, and in the capacity of City Treasurer and Collector of Taxes.

Auditor of Accounts.

Sect. 4. The salary of the AUDITOR OF ACCOUNTS shall be at the rate of fifteen hundred and fifty dollars per annum.

City Solicitor.

Sect. 5. The salary of the CITY SOLICITOR shall be at the rate of fourteen hundred dollars per annum, which shall be in full for all services rendered the city.

Civil Engineer.

Sect. 6. The salary of the CIVIL ENGINEER shall be at the rate of twenty-five

hundred dollars per annum, which shall be in full for services as Civil Engineer and Engineer of the Water Board; and he shall devote his whole time to the service of the city. He shall be allowed such assistance as the Chairman of the Joint Standing Committee on Streets, the Chairman of the Standing Committee on Sewers, and the President of the Lowell Water Board may determine.

Sect. 7. The salary of the CITY PHYSICIAN AND SUPERINTENDENT OF BURIALS shall City Physician and Superintendent of Burials. be at the rate of four hundred dollars per annum, which shall be in full for all services rendered the city, including his duties as a member of the Board of Health.

Sect. 8. The salary of the LIBRARIAN Librarian of the City Library. OF THE CITY LIBRARY shall be at the rate of fifteen hundred dollars per annum.

Sect. 9. The salary of the CLERK OF Clerk of Common Council. THE COMMON COUNCIL shall be at the rate of two hundred and fifty dollars per annum.

Sect. 10. The salary of the CITY MESSENGER City Messenger. shall be at the rate of one thousand dollars per annum.

Measurer of
Wood and Bark.

Sect. 11. The salary of the MEASURER OF WOOD AND BARK, in the rear of the Market House building, shall be at the rate of six hundred dollars per annum, and he shall account for all fees received by him in his official capacity; shall pay the same into the treasury monthly, and at the same time make a report of the amount so paid to the Auditor of Accounts; and also shall be required to devote daily to his duty such time as the Mayor may direct. The salary of any additional measurers of wood and bark shall be at such rate as the Mayor and Aldermen may, from time to time, determine; *provided*, that the same shall not exceed the amount of fees received.

President of the
Lowell Water
Board.

Sect. 12. The salary of the PRESIDENT OF THE LOWELL WATER BOARD shall be at the rate of three hundred dollars per annum.

Sect. 13. The Joint Committee on Accounts and the Joint Committee on Finance may provide such clerical assistance in the offices of the City Clerk, City Treasurer, Auditor of Accounts, and Assessors of

Taxes, as may be necessary, the expense thereof to be charged to the Reserved Fund. The Directors of the City Library may provide such assistance to the Librarian of the City Library as may be necessary, the expense thereof to be charged to the Appropriation for Library. The Joint Committee on Military Affairs may provide such clerical assistance as may be necessary in the distribution of State Aid; the expense thereof to be charged to the Reserved Fund.

POLICE.

Sect. 14. The salary of the CITY City Marshal. MARSHAL shall be at the rate of seventeen hundred dollars per annum.

Sect. 15. The salaries of the DEPUTY Deputy Marshal and Captain of Night Watch. MARSHAL and CAPTAIN OF THE NIGHT WATCH shall be at the rate of twelve hundred dollars per annum each, payable fortnightly.

The compensation of the SERGEANTS OF POLICE and INSPECTORS shall be at the rate of two dollars and seventy-five cents per day each, payable fortnightly.

Night Police
Officers.

The compensation of DAY and NIGHT POLICE OFFICERS shall be at the rate of two dollars and fifty cents per day each, payable fortnightly.

Sect. 16. All fees received by the officers mentioned in the two preceding sections, for attendance as witnesses, or for any other service in an official capacity, shall be paid by the officer receiving the same to the City Treasurer; and said officer shall, at the same time, report to the Auditor of Accounts the amount thus paid; *provided, however,* that said officers need not account for any fees for travel and attendance before the Supreme Judicial and Superior Courts as witnesses.

The Standing
Justice of the
Police Court of
Lowell.

Sect. 17. The STANDING JUSTICE OF THE POLICE COURT OF LOWELL shall be paid at the rate of one hundred dollars per annum, for receiving complaints, issuing warrants, and trying cases under the Forty-eighth Chapter of the Public Statutes, or any subsequent Act or Ordinance concerning truant children and absentees from school.

SUPERINTENDENTS AND INSPECTORS.

Sect. 18. The salary of the SUPERINTEN-
DENT OF STREETS shall be at the rate of
eighteen hundred dollars per annum. The
city shall furnish a horse for his use.

Superintendent
of Streets.

Sect. 19. The salary of the SUPERINTEN-
DENT OF PUBLIC BUILDINGS shall be at the
rate of fifteen hundred dollars per annum.
The city shall furnish a horse and convey-
ance for the use of himself and the men
under his charge.

Superintendent
of Public Build-
ings.

Sect. 20. The salary of the SUPERINTEN-
DENT OF THE WATER WORKS shall be
at the rate of sixteen hundred dollars per
annum; and the city shall furnish a horse
and carriage for his use.

Superintendent
of Water Works

Sect. 21. The salary of the SUPERINTEN-
DENT OF CITY SCALES shall be at the rate
of two hundred dollars per annum; and he
shall pay into the City Treasury all mon-
eys received for fees.

Superintenden
of City Scales.

The salary of any additional weigher of
hay and other articles shall be at such
rate as the Mayor and Aldermen may,
from time to time, determine; *provided,*

that the same shall not exceed the amount of fees received.

Fish Warden.

Sect. 22. The salary of the FISH WARDEN shall be at the rate of forty dollars per annum; and the salary of POUND-KEEPER shall be at the rate of twenty-five dollars per annum.

Sealer of
Weights and
Measures.

Sect. 23. The salary of the SEALER OF WEIGHTS AND MEASURES shall be at the rate of two hundred dollars per annum and all fees received by him shall be paid into the City Treasury monthly, and he shall, at the same time, report to the Auditor of Accounts the amount of such payment.

Secretary of the
Board of Over-
seers of the Poor.

Sect. 24. The salary of the SECRETARY OF THE BOARD OF OVERSEERS OF THE POOR shall be at the rate of one thousand dollars per annum.

Board of Health.

Sect. 25. The salary of the appointed members of the BOARD OF HEALTH shall be at the rate of five hundred dollars per annum each.

REGISTRARS OF VOTERS.

Registrars of
Voters.

Sect. 26. The salary of the appointed REGISTRARS OF VOTERS shall be at the

rate of four hundred dollars per annum each. They shall receive their pay in equal amounts, in the months of October, November, and December.

ASSESSORS' DEPARTMENT.

Sect. 27. The salary of the CHAIRMAN Chairman of Board of Assessors. OF THE BOARD OF ASSESSORS shall be one thousand dollars per annum; and the salary of the SECRETARY OF THE BOARD OF ASSESSORS Secretary and other Assessors. shall be nine hundred and twenty-five dollars per annum, and he shall keep a record of all abatements and changes in tax bills; and the salary of each of the other Assessors shall be nine hundred dollars per annum; and the said Assessors shall make out and distribute the tax bills. They shall receive their pay *pro rata* monthly, during the working season. The Assessors shall devote their whole time, from February 1st to December 1st, to the service of the city, and shall engage in no other business or calling during that time. They shall jointly make a valuation of the real estate in the city, and enter the same in a book to be kept for mu-

tual reference, the same to be done before entering upon a subdivision of their duties of assessing in May.

FIRE DEPARTMENT.

Sect. 28. The salaries of the several members of the Fire Department for the year beginning April 1st one thousand eight hundred and eighty-six, shall be as herein mentioned, to be paid semi-annually, unless otherwise ordered.

Chief Engineer.

The salary of the CHIEF ENGINEER shall be at the rate of fourteen hundred dollars per annum, payable monthly, which shall be in full payment for all services which may be required of him by the City Council; and he shall devote his whole time to the duties of his office.

First Assistant Engineer.

The salary of the FIRST ASSISTANT ENGINEER shall be at the rate of two hundred dollars; and of the other Assistant Engineers at the rate of one hundred and seventy-five dollars each, per annum.

Secretary of the Board of Engineers.

The SECRETARY OF THE BOARD OF ENGINEERS, who shall be a member of the Board, shall receive twenty-five dollars ad-

ditional, which shall be in full payment for all the services which may be required of him by the Mayor and Aldermen, the Chief Engineer, and the Board of Engineers.

The FOREMEN of the respective Hose, Foremen. Hook and Ladder, and Steam Fire Engine Companies, shall be paid at the rate of one hundred and sixty dollars each, per annum.

DRIVERS of Steamers, Hook and Ladder, Drivers. Horse Hose Carriages, and Protective Wagon, who shall perform all the duties of Stewards, and all other permanent men shall be paid two dollars and twenty-five cents per day, payable fortnightly.

ENGINEERS OF STEAM FIRE ENGINES shall Engineers of Steam Fire Engines. be paid at the rate of two hundred dollars per annum.

ASSISTANT ENGINEERS OF STEAM FIRE Assistant Engineers of Steam Fire Engines. ENGINES shall be paid at the rate of one hundred and fifty dollars per annum.

All other MEMBERS of Steam Fire En- Members. gine, Hose, and Hook and Ladder Companies, shall be paid at the rate of one hundred and fifty dollars per annum each, with the exception of Pawtucketville and Ayer's City Hose Companies, the pay of

whose members shall be twenty-five dollars per annum each.

Sect. 29. Whenever any person in the employment of the city shall demand payment of his salary, or any part thereof, it shall be the duty of the Auditor and City Treasurer to deduct therefrom any and all sums of money due from such officer to the city.





